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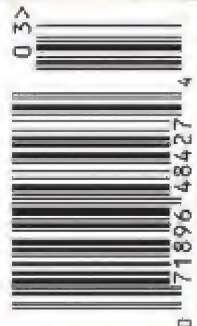
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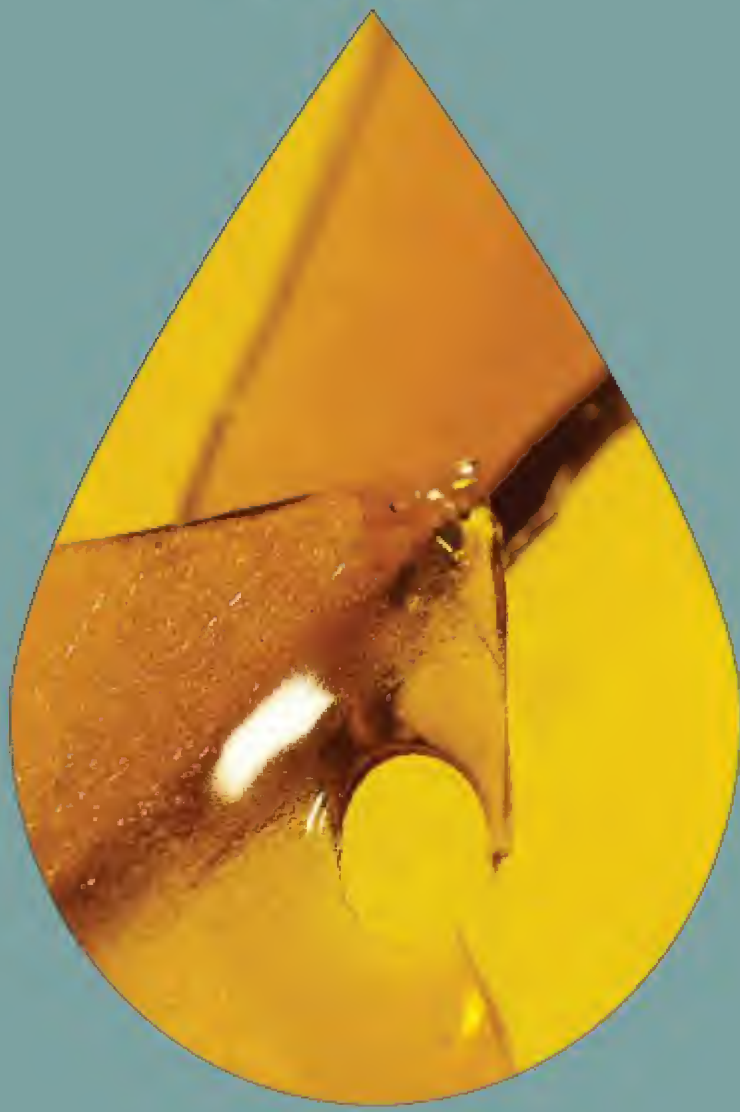
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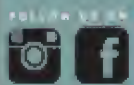
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HIGH TIMES MARCH



Whether it's a small window version or a large commercial grow, greenhouses all function in the same basic way: They allow sunlight in through the roof, and keep the thermal energy it produces from escaping.

—The Greenhouse Explosion, page 47

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Check out the untold history of this classic Cannabis Cup-winning strain, and then learn how to dial in your garden to grow an abundant supply of Bubblegum at home.

By Green Born Identity (G.B.I)

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Go behind the scenes at Santa Cruz Mountain Naturals—best known for its three-time Cannabis Cup-winning *sativa* Cracker Jack.

By Elise McDonough

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Juggalos can now be classified as members of a dangerous criminal gang. Chalk up yet another example of the US government demonizing those who choose to be different. *By Steve Miller*

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Throughout his career, Kevin Gogan was called the “dirtiest player in football.” Now retired, the former offensive lineman discusses life in the NFL and how cannabis can help players, past and present. *By Dan Skye*

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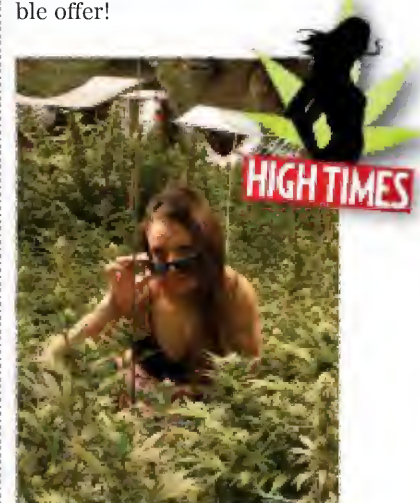


Calling All Cultivators

If you've got grow stories to tell, pretty pot shots to share or urgent garden questions that need immediate answering, contact Sirius J, our new online cultivation editor. siriusj@hightimes.com

The Whole Shebang

Did you know that our entire archive is online now? It's true. We're entering our 41st year of publishing *High Times*, and you can get unlimited access to every issue ever published. Top celebrity interviews, expert grow info and years of the highest-caliber journalism are yours for the taking. Go to "Archive" on our homepage for this incredible offer!



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NAME: Nichole
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Stoner Sex

Hyapatia Lee, one of the leading adult film stars from the so-called golden age of porn, is now employed in Colorado's cannabis industry at ground zero—working with the plants themselves. She's also our resident sexologist: Her column, "Stoner Sex," is posted every Monday on our website. Hyapatia answers all of your delicate questions about buds and the bedroom.

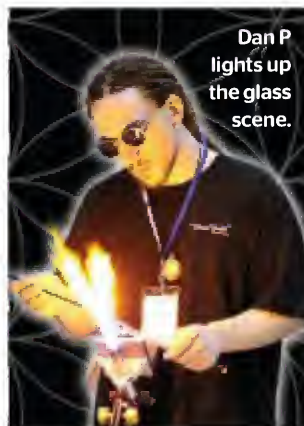
Glass Artist of the Month

Dan P established his glass career in his hometown of Lansing, MI in the spring of 2003. "But," he says, "my momentum as an artist really advanced in 2005, when I began experimenting with sandblasting."

He developed a distinctive style, teaching himself the intricacies of "coldworking" techniques (in which the shape or surface texture of glass is altered using tools and processes that do not rely on heat).

Dan's versatility gained him international recognition. He's earned huge praise for his iconic, sacred geometric pendants, Native American peace pipes and large-scale weaponry, including Oriental swords and battleaxes (see his work at danpglass.com).

His mastery of coldworking, sandblasting,



lapidary, electroforming and oil-painting on glass is enabling him to create and express anything he imagines. The best artists exhibit superior precision and style in their glass creations. Count Dan P among them.

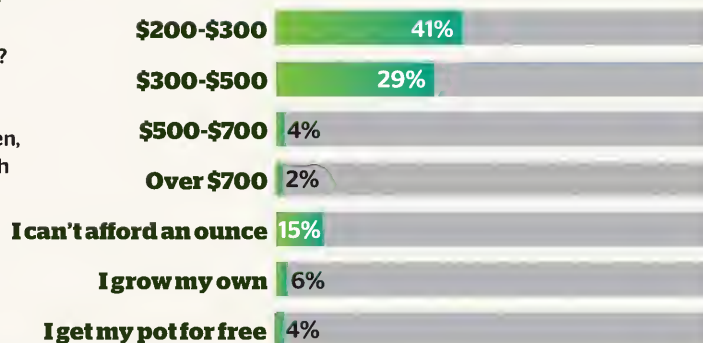
Check out more of Dan's work at hightimes.com and follow him on Instagram: @danpglass

POT POLL

The Value of Pot?

What are you willing to spend for an ounce? It varies. If you're completely dry, and the expensive stuff is all that's available, sometimes you'll spend more—but not often, according to our most recent poll. Although we've heard of some outrageous prices for pot, most of the 1,000-plus respondents indicated that \$300 is about as high as they'd go. The question remains: How high will you get?

Cast your vote in our latest poll online!





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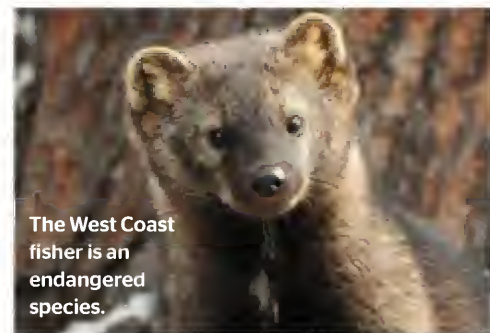
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Grow Greener Ganja

When researcher Mourad Gabriel conducted a study of West Coast fishers found dead in the woods, he discovered rat poison in 85 percent of the corpses and concluded that the small, furry, forest-dwelling mammals must have been foraging for food when they came across an unregulated marijuana grow laden with rodenticide. For his trouble, Gabriel received death threats and his dog was fatally poisoned, according to *Mother Jones*.

Now, the US Fish and Wildlife Service has proposed changing the status of the fisher to "threatened" under the Endangered Species Act, which would impose severe penalties for harming or killing them. And the USFWS has identified renegade pot growers as one of the primary threats to the fisher.



The West Coast fisher is an endangered species.

Currently, there are only some 4,000 of these weasel-like creatures left in the wild, mostly concentrated in Northern California and Oregon. Much like the spotted owl, which ignited a long-drawn-out conflict between environmentalists and log-

gers back in the 1990s, the fight to save the fisher from oblivion pits those who care about the region's ecology and biodiversity against those who seek to extract dollars by farming the Emerald Triangle's famed cash crop.

So how did the favorite herb of the Earth Day generation come to cause so much pollution and environmental degradation in one of the country's last truly wild places? Through a combination of greed, recklessness and government oppression that has pushed guerrilla growers onto pristine public lands. As a result, activists in both the drug-law reform and environmental movements are calling for the legalization and regulation of cannabis cultivation in California as the best chance to save the fisher, relieve the state's punishing drought, and prevent other environmental damage.

Conscious cannabis consumers can help by seeking out eco-friendly herb, such as that grown by Cannabis Cup winners Santa Cruz Mountain Naturals "Sustainable *Sativa*," page 72, and by moving your own grow outdoors or into a greenhouse (such as the operation profiled by Dan Skye in "Such a Fine Sight to See!," page 86). Greenhouses provide the best of both worlds: the abundant energy of the sun, coupled with the means to control the growing environment while also bringing down costs and your own carbon footprint.

Other steps toward sustainability include forgoing poisonous pest control for natural alternatives, using compost teas for fertilizer, and supporting small ganja farmers who care about the land, the local wildlife and the neighbors. Working together, we can show that legalized pot is a vital sustainable industry that provides jobs while giving back to local communities and protecting the natural world. Let's get back to the land—again.

Elise McDonough
Author of *Marijuana for Everybody!*

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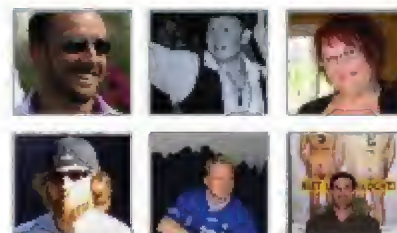
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Hazy Salute to Sativas

Sativas are finally getting recognition! I'd like to see some Los Angeles Haze. I've always wanted to grow outside in LA. I used to get these Mexican papayas at Safeway that were so dank they made me imagine Mexican imports.

Mikey Neides

Stoner Grammar Gaffes

An online article ("Stoner Chef: 10 Easy Ways to Transform Ramen") used the word "adulterations." The context in which it was used was, I feel, incorrect. I verified this twice: Both *Merriam-Webster* and *Dictionary.com* give the definition as "to debase, make impure or weaken." This would make sense if the writer were trying to be ironic.

I am in no way trying to come off as a grammar Nazi; nor am I trying to tell you how to do your job. I'm just trying to be precise. I love the magazine and all that the writing team does. This was just something I felt needed to be brought to your attention.

Chris S.

Some of our recipes have been known to induce errors in word usage.

Clean Urine With Slim-Fast?

Have you ever heard that you can use Slim-Fast to pass a urinalysis? I've used it several times for probation and pre-employment drug tests, and I've had friends use it as well for similar purposes. In theory, Slim-Fast—when used with the addition of water, as recommended—breaks down your fatty tissue and lets you piss it out. And isn't fatty tissue where THC collects?

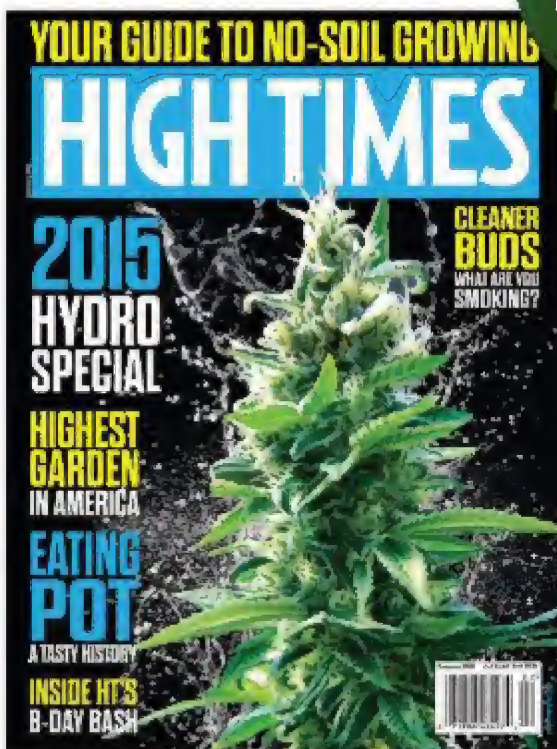
I've found it's best to not smoke for five days to a week and then flush with the Slim-Fast and water a few days before the test. It works great.

Moto Ed

Slim-Fast is a meal-replacement program in which the dieter sticks to a 1,200-calorie regimen. Yes, THC is stored in fat cells, but a diet plan is no guarantee of passing a drug test.

Marijuana is lipo-soluble, meaning that it is absorbed into fat cells and stored there until the body burns off the cells for energy. If you're on a low-fat diet, the chances are better that you'll pass a drug test, because your body will require energy beyond the glycogen stored in muscles and use its fat cells as well. But as your own recommendation suggests, passing a drug test is a lot more reliant on abstaining from toking, flushing your system with water and getting some exercise.

Obviously, a quick-flush product will help.



Now imagine this: A senior citizen like myself, with finely tuned gardening skills, can generate 10 pounds of smokeable bud.

Smells Like Victory

Have you ever wondered how to hide the smell of your grow? Try *not* hiding it—instead, find flowers that smell just like it. Here are four that I've found: the *rosa mucosa* (moss rose), eastern skunk cabbage, western skunk cabbage and crown imperial. Let's see how big this list grows for our landscaping campaign and koi pond/aquatic garden.

Geek Moses

The New MJ Economy

I read with great interest Jon Gettman's piece ("It's Time to Free the Weed Market," Dec. '14). I'm compelled to add a couple of thoughts regarding the economics of legalization.

Here in Michigan, a medical marijuana license is obtainable from the state for those demonstrating medical need, provided they jump through all the necessary hoops. Patients can either grow their own (with 12 plants allowed per person) or find a caregiver to grow their medical cannabis for them. There are also dispensaries where those holding a medical marijuana license can purchase their bud.

Gettman states: "The case for creating

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a free market is fairly straight-forward." Nothing could be further

from the truth in Michigan. Gettman states that "our cause" is also about "the destruction of the greedy, exploitative and predatory economic system that marijuana prohibition has created." Here in Michigan, the medical marijuana system is about as greedy, exploitative and predatory an economic system as you could imagine! A gram of top-shelf weed sells for \$20. At those prices, a dispensary can net \$9,000 from a pound of dried and cured bud.

Now imagine this: A senior citizen like myself, with finely tuned gardening skills, can generate 10 pounds of smokeable bud. But that gardener is now in the land of "overages"; a medical marijuana cardholder can only have 2.5 ounces in their possession at any given time. The best place to dispose of these overages would be the dispensaries. You might get lucky to get \$2,400 a pound, but you break about 10 laws in the process. The state expects growers to throw their overages away!

The imagery in Gettman's article—the big stack of Benjamins and the stack of one-ounce gold coins—is perfect. But all that gain goes to the merchants. The grower is left holding the bag, and the consumer is not much better off.

Paul P.

We Love AZ

I've been a monthly reader of *High Times* for the last seven years. I'm from Phoenix, AZ, and have grown up here smoking good herb. In the last couple years, dispensaries have really kicked off here. One of the best dispensaries is TruMed. Everyone would agree they produce the best flowers and concentrates in the state.

I was wondering why *High Times* hasn't given any love to AZ. We have a full-fledged, legal medical marijuana program where anyone with an ailment can easily qualify. It would be nice for you to devote an article to the Grand Canyon State.

Chris

Look no further than the issue you have in your hands, in which we profile the Medicine Room in Winslow, AZ.

Big Buddha Seeds



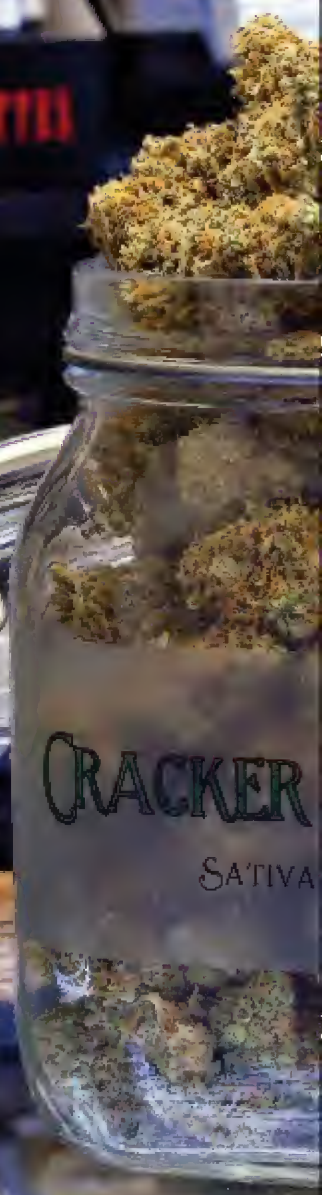
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TAKING STOCK Colin Disheroon, CEO of Santa Cruz Mountain Naturals, believes in selecting vendors, not just flowers, so he searches for the most skilled, compassionate growers to stock his shelves. Their Cracker Jack has won three Cannabis Cup *Sativa* awards, and is certified Clean Green, meaning these champions grow using organic methods. Read more in "Sustainable Sativa" on page 72. *Photo by Lochfoot*

**Contact
High**





**Contact
High**

NIGHTLIFE Got extra space, but a small budget? You can still harvest a load of great ganja. A hoophouse is one of the easiest garden structures to build. Take advantage of the sun or add supplemental lighting if you wish to recreate a scene that looks like something out of *The Twilight Zone*. Read "The Greenhouse Explosion" on page 47. *Photo by Freebie*





HIGH SPIRITS A garden of Agent Orange x Blackberry Kush, grown in the brick bunkers of an old Northern California distillery. Although the Prohibition-era elixirs are replaced by a new budding crop, when the lights are low and the fans have stopped whirling, you can feel the ghosts of distillery workers treading lightly. *Photo by Lochfoot*

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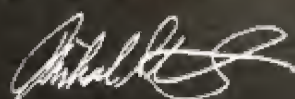
... Come on ... Really?

Look, you're smarter than that. We all know the imitation colas you buy from discount stores are "reverse-engineered" to copy Coca-Cola® too. But is it exactly the same? Absolutely not!

Everyone knows, at the end of the day, there is only one "real thing".

Bottom line is... can you or do you really want to risk your valuable cannabis crops and your hard-earned money on unproven claims sold on the basis of "cheap"?

Sincerely,



Michael "BigMike" Straumiets

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Highwitness News

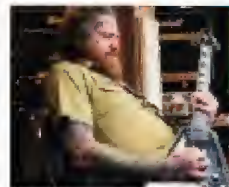
Chong Star: Tommy's New Super strain!



Entertainment

Mastodon's Ganja Guitarist

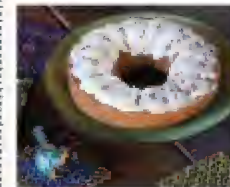
Brad Hind hits the high notes. p.34



Food

Cannabis Carrot Cake

A treat Bugs Bunny would love. p.40



Add Oregon and Alaska to the growing list of legal pot states.



Victory Is Ours!

Marijuana legalization wins big in the midterm elections. *By Paul Armentano*

While much of the nation turned red this past November, significant regions were going green. Despite landslide victories for Republican candidates in numerous Senate, House and gubernatorial races throughout the country, voters of all political persuasions were largely united in their near-overwhelming support for marijuana-law reform.

The two biggest victories occurred in Oregon and Alaska, where the majority of voters backed measures legalizing the personal use of cannabis by adults and also regulating the plant's retail production and sale.

Fifty-six percent of Oregonians endorsed Measure 91, which permits those 21 and older to possess up to eight ounces of pot and grow up to four plants for non-commercial purposes. Rules governing the state licensing of commercial cannabis ventures are expected to

be in place by late next year. For Oregon activists, the result represented a marked turnaround from just two years ago, when 55 percent of voters rejected a similar measure, the Oregon Cannabis Tax Act.

The second time also proved to be the charm in Alaska, where 52 percent of the electorate endorsed Measure 2, which allows the establishment of licensed commercial cannabis production and the retail sale of marijuana and marijuana-infused products to those over 21. (In 2004—the last time Alaskans voted on the issue—57 percent rejected marijuana regulation.) The new measure also permits the private possession of up to one ounce of cannabis by adults, as well as the cultivation of up to six plants (three flowering at a time) for personal consumption. By doing so, the forthcoming law will codify legal protections that have been in place in Alaska since 1975,

when the state Supreme Court ruled that Alaskans have a constitutional right to possess small quantities of pot in their homes.

Alaska and Oregon are the third and fourth states to enact regulations regarding the legal production and sale of cannabis goods, joining Colorado and Washington. All four measures have been enacted via voter initiatives.

Meanwhile, voters in the nation's capital provided arguably the most resounding victory on Election Day. An overwhelming 70 percent of District of Columbia voters said yes to Initiative 71, which removes criminal and civil penalties for the adult possession of up to two ounces of cannabis and/or the cultivation of up to three mature plants. (Public cannabis consumption and the possession of pot on federal property remain prohibited.)

« Unlike the newly approved legalization measures in Alaska and Oregon (or the regulatory schemes already in place in Colorado and Washington), I-71 does not establish the regulatory framework for a commercial cannabis market. Members of the DC City Council are currently considering separate legislation to regulate the commercial production and sale of marijuana to adults. (However, because the District of Columbia isn't a state, all of its laws—including those passed by voter initiative—remain subject to congressional review prior to their implementation.)

DC voters were not alone in voicing their contempt for pot prohibition. In Michigan, voters in a half-dozen cities—including Saginaw and Port Huron—approved local ballot measures eliminating local criminal penalties for minor possession offenses. (In past years, voters in more than a dozen Michigan cities, including Detroit, have approved similar citywide proposals.) Voters in South Portland, Maine, also endorsed a similar local ordinance.

In Massachusetts, voters in several state districts voted in favor of various nonbinding public-policy questions calling on officials to legalize and regulate cannabis-related commerce. Likewise,

The District of Columbia isn't a state, so all of its laws—including those passed by voter initiative—remain subject to congressional review prior to their implementation.

voters in Bernalillo and Santa Fe counties in New Mexico decided in favor of advisory questions in support of the decriminalization of one ounce or less of marijuana. (Bernalillo County, which includes the city of Albuquerque, and Santa Fe County represent a third of the state's population.)

Support for marijuana-law reform also extended across the Pacific, where a majority of voters in the US territory of Guam decided in favor of Proposal 14A, the Compassionate Cannabis Use Act. The new law directs “the Department of Public Health and Social Services to regulate the use of marijuana as treatment for medical conditions.” The department has up to nine months to provide rules for the territory's medical marijuana program.

Unfortunately, Election Day wasn't a clean sweep for pot-law reformers. A proposed Florida amendment (Amendment

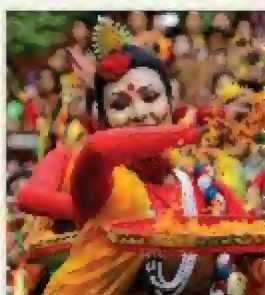
2) fell shy of the 60 percent support necessary in that state to amend the constitution. Fifty-eight percent of Florida voters endorsed the measure, including supermajorities in almost every age group except those 65 and older. Overall support for the measure largely held firm throughout the campaign, despite a high-profile, last-minute, multimillion-dollar blitz of attack ads funded by out-of-state GOP operative Sheldon Adelson, who attempted to conflate medical cannabis caregivers with drug dealers.

Nonetheless, the campaign's leading proponent, Orlando attorney John Morgan, has refused to declare his surrender. “This fight does not end tonight. This fight begins tonight,” Morgan announced defiantly in an email to supporters. “Tallahassee politicians can ignore polls and ignore activists. They cannot ignore a clear majority of Florida voters. We will not be ignored.” ✨

HIGH FIVE

Higher Power

Many spiritual traditions use cannabis to connect with the Big Picture.



Holi

Primarily observed in India and Nepal, this annual Hindu festival of spring includes the use of *bhanga*—pot flowers and leaves converted to paste, available in both beverage (*thanda*) and pill (*goli*) form—as a catalyst for communing with nature. The tradition perseveres despite repeated conflicts with the police over crackdowns on retailers and users of *bhanga* (although the Indian government licenses *bhanga* sales during the holiday).



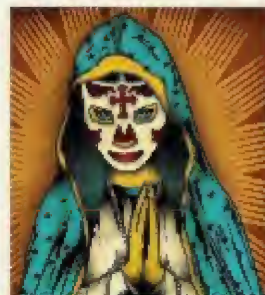
Sufism

While most of Islam's major sects forbid pot, Sufi Muslims have used cannabis for centuries to enhance their communication with Allah. The legendary mystic Al-Khidr, the spiritual inspiration for Sufism, is considered the “Muslim patron saint of pot.” Modern-day Sufis in Turkey continue to consume weed and, of course, the finest Turkish hashish as a sacrament while worshipping, especially on their feast day of April 23.



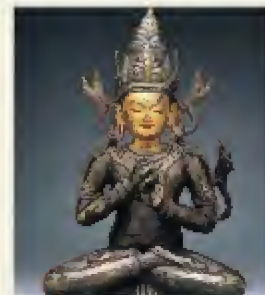
The Way of Infinite Harmony

A Taoist practice based in China's Shandong Province, the Way deifies Princess Ma Gu (roughly, “cannabis maiden”). During Mao's 1966 Cultural Revolution, the Way was outlawed, but the Ma Gu temple survived and now boasts adherents worldwide. Cannabis burned in incense censers combined with Taoist teachings facilitates access to “the Gate to the Mystery of Mysteries.”



Santa Muerte

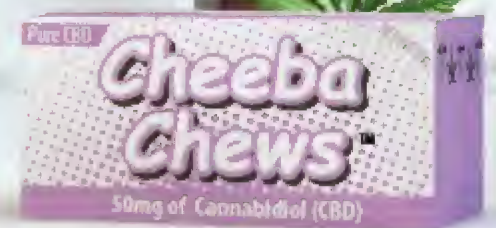
“Our Lady of the Holy Death” is worshiped in Mexico and the southwestern US, mainly by women in an unofficial cult fusing Catholic and Mesoamerican theology. Santa Muerte is represented as a skeletal female figure and is venerated by devotees every November 1 through the burning of purified cannabis in lieu of incense. The folk saint offers protection in both the material and spiritual realms.



Tantric Buddhism

Vajrayana, practiced in the Himalayas, still utilizes cannabis for spiritual endeavors, partly inspired by the tale of the Buddha subsisting for six years on hemp seeds alone. THC blends naturally with Tantra, enabling its users to descend into deeper states of meditation while elevating their overall awareness. Pot's ability to increase pleasure and conscious bodily control heightens Tantric sex rituals.

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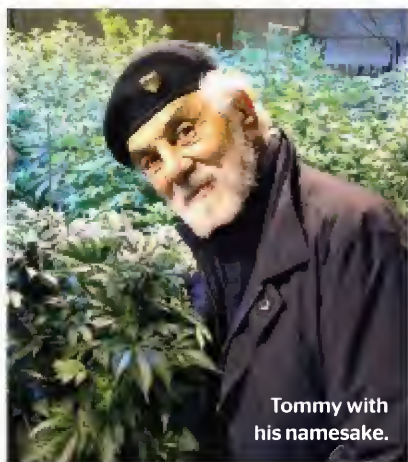
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Tommy with his namesake.

Chongstar!

If you're a superstar of cannabis, then you need a strain named after you. Chongstar, named for Tommy, was bred at Marisol Gardens in Pueblo, CO. It's a hybrid of New York City Diesel and Grape Nehi and has been tested at 29.1% THC content. Tommy and Michael Stetler, Marisol's director, have been working on Chongstar for over a year. Right now it's only available at the Marisol dispensary, but in March Chongstar will be released to the world, available as a candy bar, earwax or tar, in addition to flowers.

Bud Breath



Washington State University researchers are developing a marijuana breathalyzer to help cops detect stoned drivers.

Currently, blood tests are the only way to determine the level of THC in a driver's system. However, this new device would detect THC on a person's breath.

Stoned driving continues to be a hot-button issue in states that have legalized recreational or medical marijuana use.

Because THC can stay in one's system for weeks or even months after smoking, it is very difficult to determine a driver's level of impairment. Smoking pot the previous day can result in a positive blood test given Washington's legal limit of five nanograms of THC per milliliter of blood. Since the pot breathalyzer cannot distinguish when THC was consumed, it could easily lead to positive tests for completely sober drivers.

SATIVA LAS VEGAS!



Legalizing pot has helped transform Colorado into a tourism destination, with smokers the world over adding the Centennial State to their bucket lists. Now Nevada would like a piece of that action. Beginning in 2015, Nevada will honor medical marijuana cards from other states, allowing all legal patients to buy pot while visiting the Silver State.

23 states and the District of Columbia have legalized marijuana for medicinal use. Of those, there are currently a handful of reciprocal medical pot states but none that offers a city with the cachet of Las Vegas. With an estimated 40 million visitors a year, Las Vegas is positioned to become a major pot tourism destination—and investors who doubled down on the city's new dispensaries are about to find that pot pays out.

New York's Finest... Oregano?



A New York Ounce

New York City stoners were transfixed when Police Commissioner Bill Bratton kicked off a recent news conference with Mayor Bill de Blasio by displaying a 25-gram bag of oregano. No, the police chief hadn't been burned by a high-school weed dealer: The oregano was a prop, meant to illustrate just how much pot New Yorkers can now possess without going to jail.

While many consider New York City a bastion of liberalism, the town is notoriously tough on pot smokers. New York has consistently ranked among the least marijuana-friendly cities in the country since the Giuliani administration—and during Michael Bloomberg's three terms as mayor, it became the marijuana-arrest capital of the world, with some 50,000 people busted for pot annually. Under the de Blasio administration, arrests have dropped to about 28,000 a year. However, the glaring racial disparity remains, with blacks and Latinos making up 86 percent of those busted for minor pot possession last year.

Under the new city policy, possession of up to 25 grams (a New York City ounce) will result in a ticket, not an arrest. Unfortunately, New Yorkers will still be busted for smoking pot in public. But now you can safely take up to 25 grams with you for a stroll in the Big Apple.

Deep Web Drugs

The public's desire for purchasing drugs anonymously online is insatiable. Thanks to Tor software, which functions via built-in layers of encryption to conceal IP addresses, the so-called "Deep Web" has naturally become an illicit narcotics bazaar. And the best-known black-market site has been—and continues to be—Silk Road.

The government managed to shut down the original Silk Road site in 2013, but Silk Road 2.0 took its place

just months later. In November 2014, the Justice Department took down Silk Road 2.0 and arrested the site's 26-year-old operator. The following day, Silk Road 3.0 Reloaded was open for business.

While Tor was originally developed by the US Naval Research Laboratory to protect intelligence communications, it has since been co-opted by tech-savvy dealers and users. The resulting marketplace, in which illegal goods and services can be purchased using Bitcoins, is

big business. According to authorities, Silk Road 2.0 accounted for \$8 million a month in sales of items like pot, psychedelics and opioids.

Although the authorities will eventually catch up to the latest iteration of Silk Road, some believe its heir apparent is decentralized, peer-to-peer platforms like OpenBazaar, which allows users to host their own online stores. With no primary operators to target, decentralized markets can remain in business even if individual sellers get busted.



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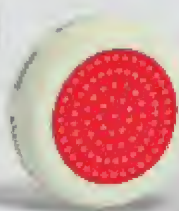
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Put Pot in the Game

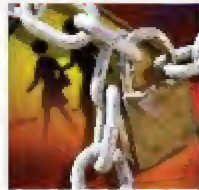
The NFL has a serious concussion problem: The league is being sued by thousands of retired players who claim the head trauma they suffered over the course of their careers was downplayed and dismissed by officials. The very future of this multibillion-dollar industry hinges on efforts to increase player safety. But is the threat grievous enough for the NFL to embrace marijuana?

While the league is notorious for imposing draconian punishments over petty pot infractions, marijuana could be the key to the NFL's concussion conundrum.

New York-based KannaLife Sciences is currently researching cannabidiol (CBD) in an effort to develop a neuroprotective medication that defends the brain against head-trauma-related diseases, such as the chronic traumatic encephalopathy (CTE) that has plagued NFL players. According to KannaLife's CEO, the goal is to produce non-intoxicating CBD-based gel capsules to help shield athletes' brains—a sort of helmet within a helmet. And if all goes well, the medication could be ready for FDA trials by mid-2015.

Earlier this year, NFL commissioner Roger Goodell said the league wouldn't rule out medical marijuana as a treatment for concussions if it proved effective. With one in three players projected to eventually develop a neurocognitive disorder, the NFL can't afford to pass on pot.

POT LOCKDOWN



In modern America, any report of a school placed on "lockdown"—particularly in Colorado—carries rather dark connotations. However, officials at Adams City High School in the Denver suburb of Commerce City are doing their best to lighten the mood: On November 7, the school was locked down after a teacher discovered a gravity bong in a student's backpack.

Initial reports suggested the lockdown was triggered by pot smoke billowing from an "accordion-like mechanism" (called a bucket). But it became clear that the bong was never actually used on school grounds: It was merely the smell of previously smoked pot that caused officials to summon the police.

Students were taken out of class, and those unlucky enough to be in the gravity bong's immediate vicinity were examined by medical personnel. According to the school's executive director: "We pulled the kids because it was such a strong odor of marijuana that we wanted to make sure that nobody had any adverse effects."

Despite the hysterical reaction, the students were unfazed—they've likely smelled marijuana before.

Inside The Wide World of Weed



Help Wanted

Atlanta-based hip-hop artist Waka Flocka Flame has added "job creator" to his résumé. The rapper admits he's not the best blunt roller in town, so he decided to hire a professional for his team. After dropping a help-wanted message on Instagram, Waka Flocka received more than 60,000 applications—including one from stoner actor/writer/director Seth Rogen. And why not? The job pays \$50,000 a year and includes benefits—at least the benefit of smoking free pot.

Rest assured, Waka Flocka isn't taking the hiring process lightly: He's asked that all résumés be sent on rolling papers or blunts, and he requires a photo or video demonstrating the applicant's skills. The search even spawned a Funny or Die video in which Waka Flocka advises his candidate pool: "It's cool to curse on your résumé ... it shows character."

Marijuana is no doubt a booming industry. Nearly half the country has legalized marijuana for medicinal use, and Oregon, Alaska and Washington, DC, have joined Colorado and Washington State in legalizing recreational cannabis. However, it's the pot-job creators, large and small, who are the true heroes in this down economy.

No-High List

A 36-year-old medical pot patient from San Francisco has been found guilty of felony possession and transportation of marijuana after attempting to fly with three and a half pounds of cannabis last year. Authorities discovered the stash in Enrico Dasig Esguerra's possession when he arrived at San Francisco International Airport for a flight to Dallas-Fort Worth.

Esguerra showed his medical card to police and explained that his insatiable appetite for pot necessitated the rather large quantity for personal consumption. In fact, Esguerra claims that his physician recommended he keep 15 pounds on hand

for medicinal use. Unfortunately, California's state law limits medical cannabis possession to no more than eight ounces (half a pound) of dried pot per patient.

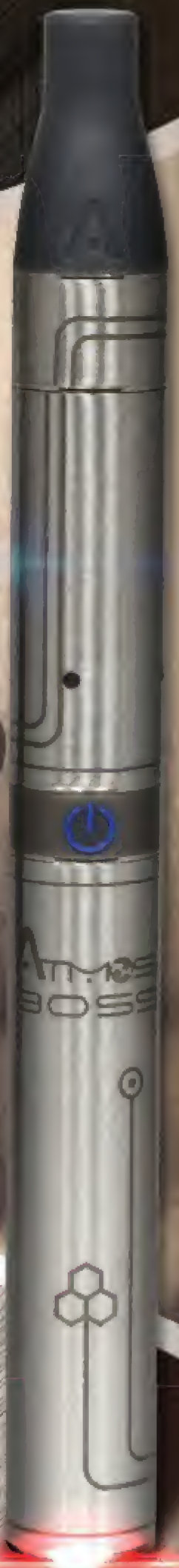
The rules for patients taking pot on flights to and from medical marijuana states is somewhat nebulous—or at least inconsistent. While some patients have had their medicine seized by authorities, others have been allowed to fly with weed. However, Esguerra's case underscores the danger in attempting to travel with serious weight, medicinal or otherwise. Ultimately, a jury didn't buy that Esguerra's three-plus pounds were meant for personal use, so he awaits sentencing for possession with intent to sell.



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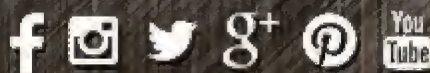
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HIGHWIRE

Dispatches from the international drug war. *By Bill Weinberg*



Abdullah

Saudi Arabia Goes on Beheading Spree

Even as the Islamic State (a.k.a. ISIS) sparked global outrage by beheading several journalists and aid workers, Saudi Arabia—a key US ally in the region—has been on a beheading spree of its own, executing people at the rate of more than one per day in the first three weeks of August. Four people were beheaded on August 18 for hashish smuggling; another was beheaded the next day for “sorcery.” The regime has boasted that King Abdullah is taking aggressive measures against the “social ill of narcotics.” Amnesty International found that some of the people were executed “reportedly on the basis of forced confessions extracted through torture.”

Guerrero Governor Forced Out Over Slayings

The September 26 abduction and likely murder of 43 college students at Iguala in Mexico’s Guerrero state prompted angry protests that forced the governor, Angel Aguirre Rivero, to resign. Iguala’s mayor, José Luis Abarca and his wife are currently under investigation in the case. It is believed that police abducted the students during a protest over



Hashish Mega-Seizures at Sea

On October 6, an Australian frigate working with the international anti-piracy Combined Task Force 150 trailed a dhow from the Arabian Sea to the Horn of Africa. After four days, crewmen boarded the vessel and found 5.59 metric tons of hashish. On September 18, the Combined Maritime Forces, another international effort, seized 5.36 metric tons of hashish in the Arabian Sea, which officials boasted was the year’s biggest hash bust worldwide—although it proved to be smaller than a haul off Somalia just two weeks later. Fourteen suspects were arrested.

education reform and turned them over to local narco gangs for disposal. The investigation turned up mass graves on Iguala’s outskirts, but it’s currently unclear if they contain the bodies of the missing students.

Are Mexico’s Cartel Wars Winding Down?

Mexican authorities on October 1 claimed another coup with the arrest of Héctor Beltrán Leyva, the sole remaining kingpin of the Beltrán Leyva Organization—a crime machine that once controlled much of western Mexico. His capture follows the arrest of the Sinaloa Cartel’s *jefe máximo*, Joaquín Guzmán (a.k.a. “El Chapo”)—another big score for President Enrique Peña Nieto’s policy against



Leyva

the cartels. Then, on October 9, Vicente Carrillo Fuentes (a.k.a. “El Viceroy”)—the boss of the Juárez Cartel, with a \$5 million price tag placed on his head by the United States—surrendered after being recognized at a checkpoint in Torreon.

The Mexican government has other reasons to claim success. Although the country’s murder rate tripled between 2007 and 2012 (a period that saw 121,613 deaths), the murder rate has declined since Peña Nieto took

office to 2010 levels. But this may be “the peace of the graveyard,” as the Zetas and Sinaloa Cartel have now crushed their rivals and divvied up the country between them (the Zetas on the Gulf Coast, the Sinaloa on the Pacific side).

Even if the Great Cartel War is drawing to a close, the country will be grappling with its aftermath for many years to come. On September 7, residents of the Cinco Manantiales region of Coahuila held a march to demand information on the disappearance of their loved ones. The region suffered waves of killings and abductions over the past years, with hundreds of families affected.

Federal and state authorities carried out an investigation in Cinco

Manantiales to determine what happened in March 2011, when presumed Zetas gunmen raided a village, destroying and looting homes and abducting some 300 people who were never seen again. Months after the investigation closed, survivors have heard nothing about the fate of their loved ones.



Santos

Colombia and Peru to “Cleanse” Putumayo

On September 30, Peruvian President Ollanta Humala and Colombian President Juan Manuel Santos and their cabinets held a rare joint meeting in Peru’s Amazon port of Iquitos. There, they signed an accord to “cleanse Putumayo,” the jungle river basin long under the control of criminal enterprises. The Río Putumayo forms the border between the two countries in that lawless region. The Colombian side is a stronghold of the FARC guerrillas, who do business with criminal gangs operating freely on the Peruvian side. Santos declared, “We have common enemies, such as the narco traffic, illegal mining and cutting of forests.” 🌿

For updates on these and other stories, see Bill Weinberg’s websites, GlobalGanjaReport.com and WorldWar4Report.com.

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Who Was That Woman?

In the midst of *High Times*'s 40th-anniversary celebration, the cover model for our very first issue contacted us to say: "Congratulations!"

In 1974, she was a college student in Philadelphia. Her housemate was a student photographer and a friend of one of *HT*'s original staffers. The model acknowledged that the photo shoot that led to the cover was by no means a professional studio session.

"It was shot inside a house in rural Pennsylvania," she recalled. "Nobody got paid, and the mushroom came from the supermarket."

These days, the pretty girl in the hat about to ingest that shroom is a mother of three—and a grandmother as well—living in New Jersey.

"I was given one copy of the magazine and had it framed," she told us. "It remains one of my most prized possessions."

WORD OF THE YEAR

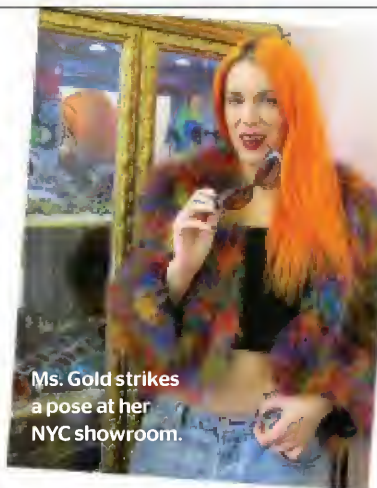
Stoners are wordsmiths. It's true! Guess which word was named the 2014 Word of the Year by the Oxford Dictionaries? Vape!

That's right—"vape." Oxford defines the verb as "to inhale and exhale the vapor produced by an electronic cigarette or similar device." It was added to the dictionary in August. The Oxford blog stated: "You are 30 times more likely to come across the word 'vape' than you were two years ago, and usage has more than doubled in the past year."

Iconic Oculars

Kerin Rose Gold has been concealing—with style—the telltale eyes of celebrity stoners like Snoop Dogg, Rihanna and Lady Gaga for years now. As the designer behind A-Morir, a boutique eyewear brand based in New York City, she's embellished a variety of sunglasses to adorn their famous faces—plus those of Beyoncé, Katy Perry and Iggy Azalea—in a slew of videos, magazine photo spreads and public appearances.

It's not a bad client list for a line that essentially started out as a hobby while Gold was working at the infamous NYC boutique Patricia Field. "I had some crystals left over from another project," she recalls, and then it came to her: "I just broke my last pair of sunglasses. It's summer; I need a new pair... what happens if I put these crystals on it?" When she got to work the next day, her co-workers were in awe and demanded that she produce more for the shop. "I made four; they sold. I made four more; they sold. And it very organically grew from there... it really became clear after about a month that I couldn't do



Ms. Gold strikes a pose at her NYC showroom.

both, so I chose this."

Gold showcased her first official collection in Paris in February 2011 and has been gaining momentum ever since, creating iconic stage looks for Lady Gaga, partnering with Supra to create the brand's first-ever ladies' sneaker, and recently being commissioned to take part in the 40th-anniversary Hello Kitty exhibit in Los Angeles.

Yet for all these mainstream pop collaborations, the tall, striking beauty with the signature flame-orange hair has consistently turned to punk music for inspiration when it comes to A-Morir's designs. "Musicians and A-Morir work really well together," Gold notes. "All of my pieces are named after weirder underground-rock types, so it's

really funny when you have somebody like Nicki Minaj or Beyoncé wearing a piece called 'Lux,' named after Lux Interior from the Cramps."

Not surprisingly, her most laid-back clients are also the biggest tokers. "They respect the art, and they respect the art that goes into it. So with Rihanna and the 'Run This Town' video, she was like: 'Yo, we're doing this video. It's going to be crazy—Jay-Z and Kanye are going to be in it. Make something black, and make something like nobody's ever seen before.' 'Anything else?' 'No, I trust you—just do it.'" The result of RiRi's directive became the widely bootlegged Barracuda spiked shields, which further skyrocketed A-Morir's exposure.

Though she provides bejeweled cover for plenty of cannabis users, Gold confesses to a lifelong sobriety, insisting that her drug of choice is Swarovski crystals. This made for a perplexing situation for her first meeting with Snoop. "I was super-nervous he was going to ask me to smoke weed—because what do you do if Snoop Dogg asks you to smoke?" she confesses. "If you've never smoked weed before, the time to try it, maybe, is when Snoop asks if you want to get high." *Zena Tsarfin*



Coming Clean

Have you cleaned your bong lately? Have you ever cleaned your bong? Now's the time! Make an effective, environmentally friendly DIY bong-cleaning solution with baking soda and vinegar. Disassemble the bong first: Remove the bowl and slide, and set them aside. Then dump out the dirty bong-water and give the chamber a quick rinse with clean water, filling from the top and dumping from the slide opening to keep dirty water build-up from forming in the lip of the mouthpiece. Then pour in your vinegar and baking soda and watch it bubble up! Use half a cup of baking soda for every cup of vinegar. Plug the mouthpiece and slide opening on your bong and tip it back and forth to get the solution into the neck, allowing the fizzy liquid to work its magic. Make sure to pop the bowl and slide into separate containers with your vinegar solution, giving them a shake to get things going. If there's still resin build-up on your piece, you can use a pipe cleaner or even a spare chopstick to detail the dirty bits.

SPOTLIGHT

Marijuana Smoking Jacket

Add a dose of cool to your wardrobe. Chicago-based Smoky Joe's Clothing designs smoking jackets for men, women and even dogs. Its latest jacket, the 420, is perfect for fashion-forward stoner. Velvet cuffs and coconut-shell closures provide touches of elegance to this American-made piece. You'll bring the swagger to any event you attend wearing this leafy loungewear, and chances are you'll be the center of attention.

\$399, smokyjoesclothing.com





That V isn't the only thing "flying" in this picture.

Brent Hinds's High Road

Take a trip at the brain with Mastodon's notorious axe slinger. *By Zena Tsarfin*

Don't let the face tattoo fool you—Mastodon's Brent Hinds is a modern-day Renaissance man. When he's not handling guitar duties for the Atlanta-based metal megastars or playing with his other band, West End Motel, Hinds can be found working on wood carvings in his backyard, or maybe putting on a fez hat and throwing a house party

to support a local charity.

But if there's one other thing he loves to do, it's smoking pot. On Mastodon's recent New York tour stop, we sat down with Hinds and tried to get into his head—no easy feat, considering all that he's got going on. Here's what he had to say concerning his favorite subject.

Learning to Vape

"When we were on Mayhem [the 2013 Mayhem Festival tour], the vape pen just came out and we got sponsored, but I wasn't using it correctly. I like to *smoke pot*—I like to see big billows of smoke come out of my mouth—and I was getting that result out of the vape pen. So I was overdoing it. I had to refamiliarize myself with it, like: 'You can't make big billows of smoke with this thing—it'll fuckin' put you in bed.'"



Masto-Dudes

One of the preeminent heavy metal bands of the decade, Mastodon has released six studio albums and garnered two Grammy nominations. Their latest record, *Once More 'Round the Sun*, entered the Billboard 200 chart at number six.

"When I'm smoking weed, I'm smoking a lot of weed."

His Preferred Method

"I went back to smoking weed. It was so hard to get that wax, and it made a mess on all my jeans, and the [pens] don't charge If I've got weed in my pocket and rolling papers, I go outside and in two seconds I'm high."

Where He Smokes

"When I'm smoking weed, I'm smoking *a lot* of weed. Mostly, I smoke at home ... I hardly smoke any on tour because of the regimen: scheduling guitar lessons, interviews and also in-store signings for the record. I just collect weed on tour ... kids will [bring it]: 'Here's the weed that I grew.'"

Cooking with Weed

"I have this gigantic Tupperware of pollen and kief, and I just put that on everything I cook, like a seasoning. Cook it up and it starts to caramelize in with whatever you cook it on. And it gives you that feeling when you breathe out your nose—that back-end essence when you've just ingested weed. That's what I like about it. Ah, that's good...."

Favorite Sprinkle-Worthy Food

"Eggs ... every morning when I wake up, I put it on my eggs. It's just kief, so sprinkle it all over everything, like salt. I'm pretty much constantly ingesting marijuana." ✨



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Stoner Jazz's Swift Return

Marco Benevento expands on his early psychedelic roots. *By Jen Bernstein*

DELVE INTO THE DELICIOUS WORLD OF MARCO BENEVENTO'S DISCO PARTY BEATS, AND THE MOST EXUBERANT OF ALL DANCE PARTIES ENSUES. WITH UNSTOPPABLE GOOD VIBES, THE PIANIST WITH PINBALL ENERGY PROVES THERE'S NO LACK OF CREATIVITY WHEN IT COMES TO *SWIFT*, HIS FIFTH SOLO ALBUM. BURSTING WITH MELODY AND BLENDING ROCK, JAZZ AND INDIE-PSYCHEDELIC POP, BENEVENTO'S LATEST JAM FINDS THE ARTIST WARPING SIGNALS THROUGH HIS PIANO WHILE BRANCHING OUT INTO A PREVIOUSLY UNTAPPED INSTRUMENT: HIS OWN VOICE.

Your last album brought total party vibes. Does *Swift*?

The first few songs from *Tigerface* were the beginning of an electro-pop kind of thing with a lot of drum

machines, simple progressions and melody lines. So it started there, and with realizing we're a party band. We like people to dance—we play the late-night show. I think a lot of the new songs were inspired by our show.

What made you think about trying out vocals?

I felt the melodies were deserving of another instrument like the voice to help bring [them] out. Writing lyrics is a new thing for me—another chapter that I'm really excited to get into. It's nice covering the vocal parts and not having to worry about someone else doing it.

When did you first try pot?

I started smoking pot in high school and you know you find

out about a magazine about weed, like *High Times*, and you're like 'oh my god, that's amazing!' I held on to my first *High Times* for months. Seeing all these plants, the centerfold and the flowers were just mind-blowing.

How'd you get into playing stoner jazz on piano?

I remember reading the "Top Ten Stoner Jazz Records" in *High Times* and it really spoke to me. At the time I was into Jimmy Smith, Oscar Peterson and some more traditional jazz, but was looking to get into some other, more experimental artists.

Do you play piano high?

I liked pot for practicing a lot of piano because I spent so many hours sitting at the piano learning music for a recital or for a gig. I always

"I always found that herb helped me focus, it slowed things down so I could stay longer and really kind of absorb it, get into and really understand the music."

found that herb helped me focus, it slowed things down so I could stay longer and really kind of absorb it, get into and really understand the music. I think having that time being high...it helped me to just focus.

What about using pot for creativity?

There's definitely an incredible creative surge that flows out and comes with the territory. I get pretty motivated, especially in the studio—where I am right now. I mean, I'm just thinking like "Oh right, I could just plug this keyboard into that pedal, and then record it on this tape machine, and then maybe come up with a loop." Yeah, I get inspired, really creative, and motivated, even sort of... *uppity*. I just want to constantly experiment.

Did you ever try any other psychedelics?

Of course. I ate mushrooms and acid, but any time I would do that it was so distracting. I'd sit down, try to practice and my fingers would grow and the keys would get all colorful and I'd be like, 'I can't practice!' You have to be walking barefoot in the grass and absorbing the sky when you're trippin' on acid or mushrooms. Herb always worked fine for me. ✨



Marco's Top Five Psychedelic Records

1) Foxygen — *We Are The 21st Century Ambassadors of Peace & Magic* 2) World Psychedelic Classics, Vol. 3 *Love's A Real Thing* 3) Albert Ayler — *New Grass* 4) The Beatles — *Magical Mystery Tour* 5) The Mothers Of Invention — *Freak Out!*

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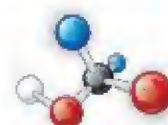
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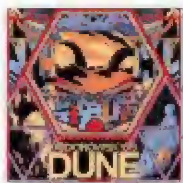


Otherworldly Ambition

A cinematic dream unrealized.

Jodorowsky's *Dune* is a fantastic, kaleidoscopic look at the movie Alejandro Jodorowsky, the legendary Chilean director, would have made from Frank Herbert's science-fiction classic in 1974—if only he could have persuaded a major studio to shell out for a 14-hour-long, Pink Floyd-scored epic featuring Orson Welles, Mick Jagger, Salvador Dalí and the director's own 12-year-old son Bron-tis, whom Jodorowsky started grooming to star in the film when the kid was 9.

Director Frank Pavich brings to vivid life the masterpiece that might have been and provides us with something perhaps even more marvelous: a look at the way Jodorowsky thinks and works. Pavich skillfully draws out the visionary director



Jodorowsky's Dune

Frank Pavich
(Sony Pictures Home Entertainment)

on his plans for the film, which included hiring Chris Foss and the then-little-known H.R. Giger to design the spacecraft and sets, as well as renowned French artist Moebius to do the costumes and storyboarding. Giger and Foss are also interviewed, as is Diane O'Bannon, widow of Dan O'Bannon, who was supposed to do the special effects on *Dune* and was so wrung out by the experience

that he entered a psychiatric hospital immediately following the project's demise. (He would recover and go on to write *Alien*, which introduced the world at large to Giger's monstrous talents.)

The art for the never-made *Dune* was, as you can probably guess, absolutely sick, and we get to see plenty of it here, via stellar animations by Syd Garon and Paul Griswold, which float and zoom about the screen to a throbbing and occasionally menacing score by Kurt Stenzel. Sharp, incisive and colorful, *Jodorowsky's Dune* plays like the world's most wonderful and illuminating acid trip. That quality, coupled with the brevity of the modern attention span, renders the film likely to endure even longer than its namesake might have.

Polly Watson

MUSIC RECOMMENDATIONS



Ariel Pink
Pom Pom
(4AD)

➤ Prolific 21st-century schizoid man Ariel Pink cheerfully straddles the chasm between irritating and endearing in his roiling spew of arty-pop meltdowns. Pink draws from a vast mental storehouse of British psych-pop, Cali sunset-glow AM rock and cheesily buzzing '80s electro, infusing

tracks like the whimsical "Put Your Number in My Phone" with a kaleidoscopic melodicism, bubbling beats and a lightly sardonic lyrical grit. *Pom Pom's* post-post-irony gives Pink's over-the-top wacky pop a substantive and enduring air. May he live in ever more interesting times. *John Payne*



Eliot Lipp
Watch the Shadows
(Pretty Lights Music)

➤ Eliot Lipp unleashes his most robust LP with *Watch the Shadows*, whose title track begins with inventive hypnotism before ushering in a funk wisdom sure to march the tightest behind to the front. "The Western" revels in its dual identity: dramatic horns evoke a Big Sky landscape, yet the vocals

of guest indie duo Cherub recall 1984 pop gold. "Still Life" is moody jazz impressionism yielding to brighter house electronica, while album closer "Strangers Getting Stranger" intersperses classy piano riffing with experimental dubstep, as Lipp will never be obscured by a flat brim. *Mark Miller*

BOOK RECOMMENDATIONS



Patty Hearst and the Twinkie Murders: A Tale of Two Trials
Paul Krassner
(PM Press)

➤ Satirist Krassner is darkly funny; he's also a reporter. In this collection of courtroom tragi-farces, he recounts how his associate Mae Brussell revealed that the mastermind of the Patty Hearst kidnapping was actually a government informant. During the Dan White trial—in which the

SF city supervisor argued that overindulgence in sugar led him to murder Mayor George Moscone and gay icon Harvey Milk—Krassner coined the phrase "Twinkie defense," which immediately entered the lexicon. If justice is blind, she clearly has an overcompensating sense of the absurd. *Michael Simmons*



Cannabis Pharmacy: The Practical Guide to Medical Marijuana
Michael Backes
(Black Dog & Leventhal)

➤ This is an evidence-based resource for patients and doctors alike. There are four sections: A history of cannabis, methods of administration, common strains and their effects, and the ailments that cannabis can treat. Throughout, Michael Backes compiles the findings of science, debunks common

myths, and addresses potentially fruitful areas for research. He acknowledges that his work is preliminary due to an unfortunate lack of scientific studies, but the book's argument effectively destroys the misguided claims and outright disinformation spread by prohibitionists. *Claire Scimeca*

GAME RECOMMENDATIONS



Monster Hunter 3 Ultimate
Capcom
(Nintendo 3DS)

➤ *Monster Hunter 3 Ultimate* may be the most addictive game ever created. The series begins with the player taking on the role of hunter, setting off into the wilderness to find an insanely gigantic monster to kill. After slaying the beast, you can make weapons and armor out of its corpse. The

formula may seem simple and repetitive, but the challenge of actually killing the monsters is difficult and rewarding. The hunts, plus a cast of characters that are as lovable as they are bizarre and the stunning visuals, make this game a must-have; you will never, ever be bored again. *Mike Caiazza*



WARNING: CANNABIS IS AN ACCUMULATOR PLANT...

Did you know Cannabis was used at the Chernobyl site to help pull radioactive contaminants out of the soil?

They used Cannabis for soil remediation because it's an accumulator plant that absorbs nearly everything in its environment. While soil remediation sounds great, the fact is, the cannabis plants became highly radioactive and had to be disposed of properly as well.

COULD YOU IMAGINE A PATIENT SMOKING RADIOACTIVE WEED?

It's a scary thought, isn't it? In short, cannabis accumulates everything in its environment—including potential toxins—and retains them even after harvest.

In other words, whatever your plants accumulated while growing—you are now smoking. That's why you need to know how to protect yourself and your patients from potential medical marijuana toxicity.

The entire story, along with many other little-known, yet vitally important facts are revealed in a new Bulgarian Academy of Sciences white paper titled:

"ELIMINATING HEAVY-METAL TOXICITY IN MEDICAL MARIJUANA, TO PRODUCE PATIENTS' MEDICINE SAFER THAN DRINKING WATER... WHILE RAISING BUD WEIGHT, THC, AND CANNABINOIDS"

The author of the white paper, Julian Karadjov, PhD, reveals facts medical marijuana growers absolutely MUST know. Here are just a few...

- **The little-known fact that makes Cannabis totally different from other plants and why not knowing this can endanger the lives of your patients!**

- **Why the nutrients you feed your plants could actually be turning them toxic** (make sure you check your bloom boosters for this one common ingredient that could be toxic)

- **Exactly which heavy metals are toxic and how to protect your patients from ingesting them** (there are some heavy metals that are completely harmless. Get the complete list inside)

- **Surprising plant tissue sample results of Berlin, Hash Plant, and White Rhino strains of medical marijuana** (goes completely against what most growers think is needed to maximize size, weight and potency!)

- **The TRUTH about so-called "Pharmaceutical Grade" salts and chelates**

- **Why you can't trust regulators and other government "watch dogs" to make sure the hydroponics nutrients you feed your plants are safe**

- **The 2 biggest MYTHS about natural and synthetic chelators and their role in toxic metal absorption**

- **How to guarantee—with 100% confidence—that your medical marijuana is as pure and harmless as filtered drinking water**

- **How the University of Mississippi achieved 21% more yield from their cannabis plants with one simple change to their feeding program**

- **How to nearly DOUBLE the amount of THC and other cannabinoids your plants produce the very next run you start** (new test results from Hedron Analytical Inc.)

- **As seen on TV: the dangers of medical marijuana cadmium poisoning** (and how to help your patients completely avoid this risk!)

And there's more too... **the dangers of "home brew" hydroponics nutrient formulations ...** African marijuana cadmium dangers... plus other little-known facts most growers never hear about.

The bottom line is: if you grow medical marijuana and care about the safety of your patients at all (or you use marijuana yourself) then you must read this white paper.

It's free to access and available online. Simply visit

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MUNCHIES
Cannabis Carrot Cake
Nose-twitchingly scrumptious.

Captain Kirk is a three-time Cannabis Cup winner in the edibles category, most recently in Michigan for his Lime in the Coconut Cake. The wins have increased his notoriety around town. “People know my name now,” he laughs. “It’s been an honor.” After replacing pharmaceuticals with edibles, Kirk improved his own health, lost weight and

managed his multiple sclerosis. “I’m just sticking with my edibles,” Kirk says, “and staying away from pharmaceuticals as much as possible!” Captain Kirk’s cannabis-infused Carrot Cake uses shredded carrots and carrot juice for an intense flavor and color, and it’s topped with a delicious lemony cream-cheese frosting. This cake is simple to prepare and perfect for casual parties.

You can meet Captain Kirk at the High Times Cannabis Cup in Denver, where he’ll be competing again, as well as rolling 420 joints over the weekend for a personal record! “I want to do something outrageously cool for Denver ... something amazing!” he promises. Michigan patients can pick up Captain Kirk’s edibles at the Ann Arbor Health Collective, the Green Door and Depot Town in Ypsilanti. *Elise McDonough*

CANNABIS CARROT CAKE

Cake

- 1 cup all-purpose flour
- 1 cup whole-wheat flour
- 1¼ tsp. baking powder
- 1 tsp. baking soda
- 1 tsp. salt
- 1 tsp. ground cinnamon
- ½ cup packed brown sugar
- ¼ cup granulated sugar
- 2 large eggs, beaten
- ¼ cup cannabutter, melted
- ½ cup applesauce
- 2 cups carrots, finely grated
- 4 fl oz. fresh carrot juice
- 2 tsp. nutmeg
- Cooking spray

Icing

- ½ cup powdered sugar
- ½ tsp. vanilla extract
- 2 tsp. fresh lemon juice
- 2½ tbsp. cream cheese (at room temperature)

together the sugars, eggs and melted cannabutter in a large bowl until light and fluffy. Add applesauce and beat again. Fold in the carrots and nutmeg. Working in small batches, add the flour mixture, alternating with the carrot juice, until the batter is blended. Beat on high for 30 seconds more.

Pour the batter into the prepared pan and smooth out the top. Bake until a toothpick inserted in the cake comes out clean, about 50 to 60 minutes. Cool the cake in the pan for 20 minutes, then turn it out onto a wire cooling rack. Let cool completely before icing.

While the cake is cooling off, blend the icing ingredients in a medium bowl using an electric mixer. (Add water by the teaspoon to thin the icing’s consistency if so desired.) Drizzle the icing over the top of the cake and let sit for 10 minutes. Slice and enjoy!
Stones 12.

Preheat the oven to 350°F. Coat a Bundt pan or 9-inch springform pan with cooking spray. In a medium mixing bowl, whisk together the two types of flour, baking powder, baking soda, cinnamon and salt, then set aside.

Using an electric mixer, beat

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(Golden Goat)
"Still waiting for the rest of the country to catch on to the Goat..."
-Denver, CO

(Berry White)
"Very relaxing smoke. Uplifting and happy! Great anytime pot."
-Newark, DE

TRANS HIGH MARKET QUOTATIONS

STATE	CITY	STRAIN	PRICE
Alabama	Birmingham	Blueberry	\$350
Alaska	Wasilla	Mango	260
Arizona	Phoenix Tucson	Bubba Kush Blue Dream	320 300
Arkansas	Little Rock	Sensi Star	375
California	Los Angeles San Francisco	Grand Daddy Purp Girl Scout Cookies	250 300
Colorado	Denver Pueblo	Golden Goat Headband	300 320
Connecticut	Hartford	Sour Diesel	400
Delaware	Newark	Berry White	350
Florida	Orlando	Green Crack	360
Georgia	Atlanta	OG Kush	320
Illinois	Chicago	Chemdog	320
Iowa	Des Moines	Bubba Kush	275
Kentucky	Louisville	Skunkberry	400
Louisiana	New Orleans	Sour Diesel	350
Maine	Bangor	Guava Chem	280
Maryland	Baltimore	Girl Scout Cookies	320
Massachusetts	Boston	Trainwreck	300
Minnesota	Minneapolis	Skywalker OG	330
Mississippi	Meridian	Lemon Kush	300
Missouri	St. Louis	Blue Dream	350
Montana	Bozeman	Grape Ape	300
New Hampshire	Manchester	Sweet Tooth	275
New Jersey	Jersey City	Skywalker	360
New York	Brooklyn New York	Strawberry Cough Silver Haze	400 380
Ohio	Columbus	Purple Haze	360
Oregon	Portland	Cheese	180
Pennsylvania	Philadelphia	Girl Scout Cookies	330
Rhode Island	Providence	Vortex	350
Texas	San Antonio	Afghan	400
Vermont	Burlington	Tahoe OG	325
Virginia	Richmond	Sour Diesel	360
Washington	Seattle	MK-Ultra	210
INTERNATIONAL			
Canada	Toronto Vancouver	Jack Herer Sweet Tooth	C\$200 \$180
England	London	Big Buddha Cheese	£210

MARKET ANALYSIS

Prices by the ounce

The market has been a bit of rollercoaster in 2015. All indices were up in January, down in February and now up again in March. The US Price Index experienced the biggest gain, finishing the month \$25 above its February average. Its current average price of \$308 per ounce marks a six-month high.

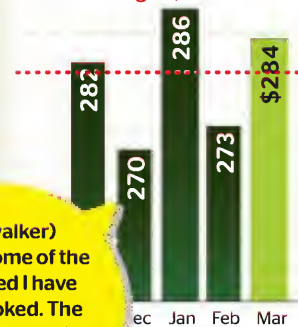
US Price Index
YTD Average: \$298



Kind Index
YTD Average: \$369



Mids Index
YTD Average: \$281



Schwag Index
YTD Average: \$100



(Skywalker)
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-Jersey City, NJ

(Big Buddha Cheese)
"Excellent smoke. Quite pungent—the smell is almost overpowering."
-London, UK

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When it comes to toking, vaporizers are a healthier alternative than combustion, but all too often they're either too hot or the taste just isn't there. The new VapeXhale Cloud EVO provides perfect flavor, allowing the essential oils and terpenes to shine through in a thick cloud of ganja gas. Better still, these lightweight units heat quickly, and the dry glass mouthpiece ensures a dependable series of delicious hits.

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The Greenhouse Explosion



In Ontario, Canada, Maricann relies on this sparkling new greenhouse to provide medical crops.

Whether it's concern about their carbon footprint, or a quest to keep costs low, growers are increasingly turning to greenhouse cultivation to produce great ganja crops. There's a wealth of greenhouse information out there. Here are the basics to get you started!

How did indoor pot growing become so popular? Simple. Growing pot used to be illegal—everywhere! If you grew outdoors, the risks were obvious: Cops could potentially see your crops. *Duh.*

So, in order to remain undetected, growers moved their gardens indoors—a practice that's been going strong for three decades.

But, thankfully, times are changing. As the support for legalizing cannabis builds across the nation, growers are rethinking their old habits and utilizing that great

big light bulb in the sky once again. But now they're combining the best of both indoor and outdoor growing in the greenhouse, where the environment can still be controlled, multiple harvests are possible, and (best of all) the light is free.

As the saying goes: "There's nothing new under the sun." Plato was talking about "protected cultivation" as early as 400 BC. The Roman emperor Tiberius may have owned the first greenhouse, a structure built to grow cucumbers. As glass hadn't yet been invented, his version consisted of thousands of transparent mica sheets to let the sun shine in. The more

modern greenhouses that followed were used to house tropical plants brought back from explorers' travels—the first botanical gardens. By the 17th century, greenhouses had proliferated across Europe.

Greenhouses come in all shapes and sizes—just check out *Amazon.com*, where you will find a multitude of choices. Some are more advanced than others, but whether it's a small window version or a large commercial grow, greenhouses all function in the same basic way: They allow sunlight in through the roof, and keep the thermal energy it produces from escaping.



For growers who can't wait to get growing, a greenhouse can be constructed far more quickly than an actual building.

In states where cannabis cultivation is legal, backyard greenhouses may be the simplest, most cost-effective route for new growers. With the addition of supplemental lighting, heating and ventilation, a greenhouse can operate year-round and be very energy-efficient. Greenhouses shield your buds from changing outdoor conditions, and are equally effective for just starting plants.

The first step is to place your greenhouse so that it has southern exposure (and, obviously, is located on flat ground). The industry has advanced to the point that nearly any design configuration that you can conceive of is available online and can be delivered within days. And if it's not—which is doubtful—a do-it-yourself greenhouse can be constructed cheaply and easily by anyone, even by those with rudimentary building skills.

Industrial-size greenhouses are proliferating throughout the cannabis industry, and nowhere more so than in Colorado, where recreational pot is legal. If a city is short on warehouse space, greenhouses offer an affordable alternative. If you own undeveloped land, a greenhouse can be constructed far more quickly than an actual building.

Though the expense of operating a commercial greenhouse is not as steep as large-scale indoor grows, the overhead can still be considerable—especially the start-up costs. Winter months can require supplemental lighting; cold temperatures require heat; and the summer's high temps necessitate the regulation of both ventilation and cooling. But once these facets of greenhouse growing are addressed, the annual costs will be lower and the quality of the cannabis just as high.



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The Mini-Greenhouse

The simplest greenhouses are “cold frames” or “hot beds,” ideal for those with minimal space. (Hot beds are simply cold frames equipped with a heating element.) These greenhouses can be any size the grower desires—in effect, they create micro-climates, allowing the plants to get an early start in spring or extend their bloom further into autumn. Cold frames provide shelter and insulation. However, they may not be ideal in extreme weather; nor do they lend themselves to any type of extensive environmental control equipment.



You don't need to walk into your greenhouse to produce great ganja.



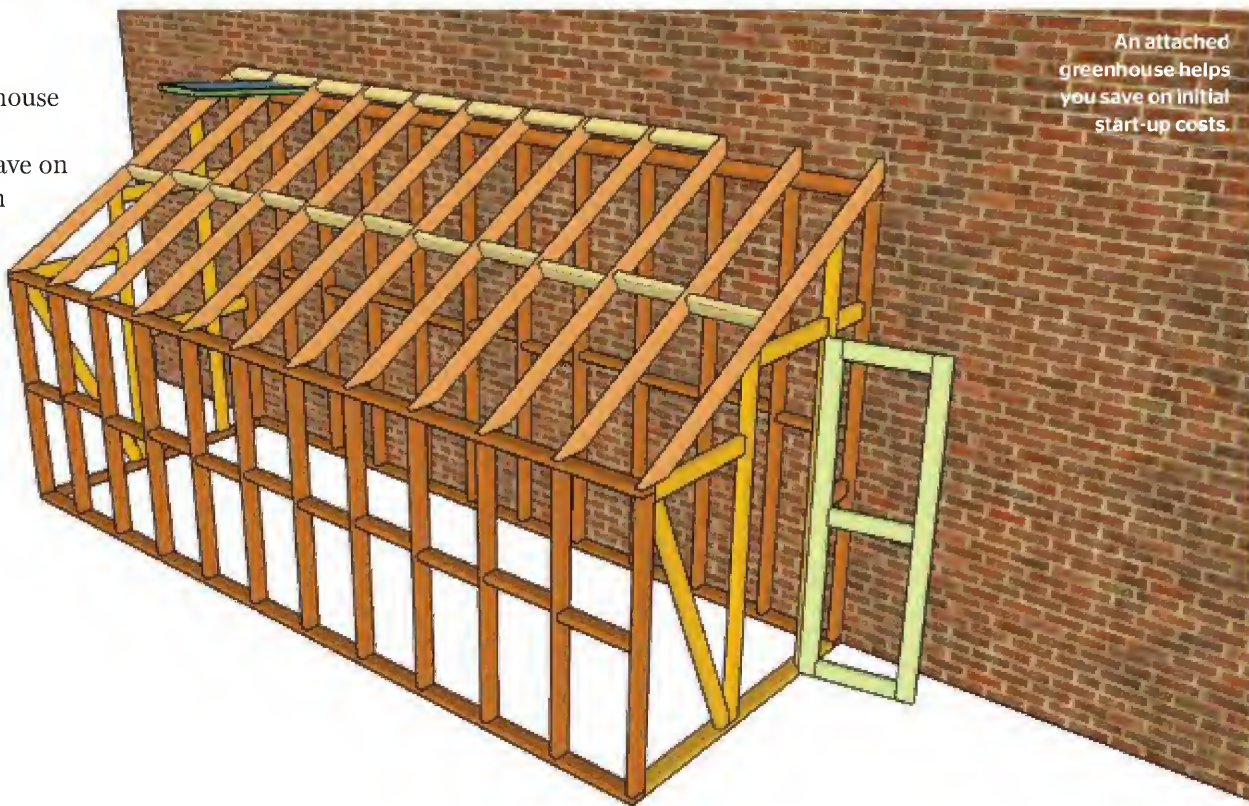
Marisol Therapeutics of Pueblo, CO was one of the first large-scale medical grows to use a free-standing greenhouse.

The Freestanding Greenhouse

An independent structure may provide you with more options in terms of location. You can take advantage of any natural assets, such as sunlight, wind or water. Detached greenhouses are most commonly referred to as “A-frames” or “even-spans,” and are the most common greenhouse designs.

The Attached Greenhouse

If you build your greenhouse so that it's connected to another building, you save on design and construction costs, because one side of the greenhouse already exists. Many homeowners have discovered that an attached greenhouse can also reduce home heating costs: A connecting door allows its warmth to pour into one's living space.



An attached greenhouse helps you save on initial start-up costs.

See a massive greenhouse. hightimes.com/maricann



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The Hoophouse

Commonly called a polytunnel, a hoophouse is simpler in design than a greenhouse. A greenhouse is a more permanent structure, often built on a foundation with a concrete floor and covered with glass or polyethylene; it can be outfitted with electricity, running water and heat. A hoophouse,

on the other hand, is a temporary structure made from a frame of metal or plastic hoops covered with polyethylene or row-cover fabric. Temperature, humidity and ventilation can all be controlled by portable equipment installed in the hoophouse.



A hoophouse can be built with minimal effort.



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Your greenhouse's performance will depend on the materials you use. You basically have four choices for covering a greenhouse: glass, fiberglass, polyethylene or plastic.

The Connected Greenhouse

Connected greenhouses are geared toward large-scale production. The large, undivided space allows for efficient heating and cooling throughout the facility. Growers can designate specific areas for different steps in the growing process—a nursery for seedlings, a cloning station and, most importantly, sufficient space for plants in varying stages of growth, thereby enabling a perpetual harvest.

Building Your Own

Whatever the shape, greenhouses can be constructed from a variety of materials. The frames can be aluminum, PVC, steel or wood. Your choice will depend on a number of factors: How important is the



In Colorado where winters are harsh, large-scale growers are increasingly turning to greenhouses.

look of your greenhouse? What's your budget? How much time do you want to spend on maintenance? Your greenhouse's performance will depend on the materials you use. You basically have four choices for covering a greenhouse: glass, fiberglass, polyethylene or plastic.

Glass, of course, is subject to breakage and is more expensive than plastic. Fiberglass is light, strong and resistant to hail,

but it discolors over time, thereby reducing sunlight. Polyethylene is lightweight and inexpensive. It performs well during the fall, winter and spring, but it tends to deteriorate during the summer, when it's subject to more extreme exposure to the sun. Plastic greenhouses are becoming very popular, offering a low-cost alternative to glass. They absorb heat well and produce quality crops.

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Light Deprivation

Indoor growers control the light cycle by turning the lights on and off with a timer; greenhouse growers control the budding cycle by blocking the sunlight. This technique, called “light deprivation,” forces the plants to flower at a time of year that is not normally their flowering period. With proper environmental controls, multiple harvests are possible each year. A variety of breathable blackout tarps are available for this purpose. With smaller greenhouses and cold frames, you can simply pull your tarps over the structure. Large-scale greenhouses are now commonly installed with automated light-deprivation tarps that include timers.

Automated light deprivation tarps can turn day into night.

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On shorter winter days, crops may need extra light.

Supplemental Lighting

Depending on where you live, you may have to add lights to your grow, especially if you're seeking extra flowering cycles. The sun's natural photoperiod is too short during the winter months and in extreme northern or southern locations.

If your goal is to provide longer photoperiods for seedlings or a clone nursery, or to provide longer light cycles for transplanted or vegetating plants that aren't ready to flower, you may have to create separate areas for this purpose. The indoor nursery or veg room can use less-intense forms of artificial lighting: fluorescent lights or low-wattage metal halide (MH) bulbs. During daytime hours, when the sun provides adequate light the artificial lighting can be dimmed or turned off completely.

For flowering plants,

additional light extends the growing season beyond what the sun naturally provides. *HT* cultivation editor Nico Escondido recommends: "When the sun's daylight begins to wane to 10 or eight or even six hours a day, growers can switch to their HID [high-intensity discharge] lighting to complete

"Supplemental lighting not only adds an additional crop to the yearly total, it's also more economical."

the 12-hour photoperiod for cannabis flowers. This supplemental lighting not only adds an additional crop to the yearly total, it's also more economical than going with a standard indoor grow, because the greenhouse will still get a few good hours of sunlight, saving the grower a chunk of money on additional kilowatt hours."

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The side walls of this greenhouse can be raised to allow fresh air to circulate.



This evaporative cooling unit on wheels can be moved easily.

Cooling

Greenhouses eliminate the need for the pricey HVAC systems required to keep indoor gardens cool on hot summer days and from the heat of the lights themselves. But they do require climate control—specifically, dehumidification systems. An evaporative cooler will allow heat to leave the greenhouse, keeping plants cool. Also, too much humidity takes its toll

Ventilation

On bright sunny days, a greenhouse's temperatures can soar, so ventilation is paramount to controlling the climate in all seasons. Many greenhouses are equipped with hand-operated roof vents and sashes on the walls; still, on such days, the structure will require frequent temperature checks. Many home greenhouse models come with roof vents, and some offer the ability to add extra vents, which is essential in warm climates.

Vents on the perimeter of the greenhouse allow cross-ventilation, while exhaust fans help decrease the temperature. Don't be afraid to add extra circulation fans: Larger greenhouses usually have ventilation technology built directly into them—for example, low-velocity intake fans and exhaust vents in the roof. Intake fans and exhaust vents combat excess heat, allowing growers to maintain an optimum greenhouse temperature between 70°F and 80°F.

on the plants, slowing their growth rates; relative humidity should be around 60% for optimum growth.

Heating

In Colorado and other states with harsh winters, growers battle the cold as much as the heat. Electric heaters are available for this purpose, as well as heating units that run on natural gas or propane. The operating costs are fairly similar, so determine what's best for your needs. ✨



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Unwrapping the

BUBBLE

Harvested Bubblegum tastes sweet and fruity.



HT's European cultivation correspondent reveals the sweet history of Bubblegum, a Cannabis Cup-winning strain that's been grown and bred for more than two decades. Learn how you can dial in your garden to get the most from this all-time cannabis classic.

*Story & photos by
Green Born Identity (GBI)*

Chew on This

The strain known as Bubblegum won its first Cannabis Cup back in 1995. The fact that it continues to rack up awards 20 years later attests to the fact that it's a true classic among cannabis strains, a sweet green legend with a lengthy history that, according to the folks at T.H.Seeds, begins in Indiana and moves on to Holland, when, in 1992, an American friend of future T.H.Seeds founder Adam brought 135 Bubblegum seeds into the country with him as a present.

Back then, Adam was still working for Sensi Seeds, together with Simon and Tony, who would later go on to found Serious Seeds and Sagarmatha Seeds. Adam selected seven different phenotypes from those original Bubblegum genetics, including short, compact, *indica*-dominant versions and their tall, lanky, *sativa*-dominant counterparts. But all of these plants had one thing in common: an extremely sweet and fruity aroma that strongly reminded one of bubblegum.

Unfortunately, Adam lost almost all of these phenotypes

in 1993, when somebody broke into his apartment, destroyed the mother plants and stole three trays of cuttings. Luckily, one of the mothers (from the Bubblegum #3 line; the lines were numbered by height) hadn't been cut through deeply enough, so Adam managed to rejuvenate her, which allowed him to produce new cuttings. He gave some of these cuttings from the surviving Bubblegum #3 plant to Simon and Tony, who had meanwhile teamed up to found a new seed company, Cerebral Seeds. Later on, they would split up into Serious Seeds (Simon) and Sagarmatha Seeds (Tony), with both of them further advancing the Bubblegum line and adding it to their strain catalogs.

It should be noted here that Simon has a different memory of how he acquired his Bubblegum genetics: He claims to have received them back then directly from the original source in Indiana. But that's how it goes sometimes goes when it comes to the origins for a famous older cannabis strain: different people, different stories.

Growing Bubblegum

Bubblegum was T.H.Seeds' very first release in 1993, and it's still one of their bestselling strains. She's a mostly *indica* hybrid with a final height of 120 to 160 cm, requiring 55 to 60 flowering days to ripen. Harvests of 350 to 500 grams of dry bud per square meter are typical.

Adam has shared some tips on getting the most from this strain. "She may not be the most easy-to-grow plant," he acknowledges, "but she can be the most rewarding if cultivated in the right way. She requires heavier fertilization than our S.A.G.E., for example, with a recommended EC of 1.8 to 2.2 and a pH value of 6.5 for cultivation in soil and 5.8 for hydro. To increase the yield, I also recommend removing the main shoot before flowering, as well as some weak side branches from the lower region of the plant. The difference in bud production will be very noticeable then."

The expert cannabis grower known as "The Doc" had never grown T.H.Seeds' Bubblegum before, so he was delighted when he got the chance through a friend who gave him a package of five feminized

seeds. Their germination rate proved to be 100% after about three days, and the Doc planted the young seedlings into 3-liter pots filled with soil. Together with his other plants, they were placed under a 600-watt metal halide (MH) bulb that spurred fast, healthy growth.

After two weeks, the five plants looked very homogeneous, and it was time to replant them into 11-liter pots filled with Plagron Light Mix soil to which 5% expanded clay pellets had been added. A second 600-watt MH bulb was hung in the growroom and further fuelled vigorous growth and plenty of side-branch development.

After four weeks in the vegetative stage, the Doc reported: "They are growing incredibly well! Four of the five plants are totally uniform, looking like clones—only one of them is growing about one-third shorter, being extremely compact. But they're all exhibiting the same growth pattern, basically, which is shaped by numerous strong side branches dynamically growing into height—but with fairly short internodes, though, so that they look dense and bushy. Really mighty plants these are!"

"She may not be the most easy-to-grow plant, but she can be the most rewarding if cultivated the right way."



Bubblegum grows many secondary branches when trained properly.

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“The buds are so heavily resinous that they look like they were cast in glass.”

Flower Power

After five weeks of vegetative growth, the Doc induced flowering by turning the daily light cycle down to 12/12 (i.e., hours of darkness versus hours of light). At that point, the four uniform plants were 60 to 65 cm tall and the shorter one 47 cm. But all of them had about 15 internodes apiece! “That’s simply terrific, raising the happy expectation of tons of buds to emerge from them,” the Doc noted.

After two weeks of flowering, the five plants had produced an abundance of little rosebud-shaped initial flower tops. And though Bubblegum is a mostly *indica* strain, the plants stretched heavily in the early stages of flowering. Two weeks later, “that stretching has come to an end,” the

Doc reported. “Now, after four weeks into flowering, these tremendous plants are lined with countless young buds from the bottom to the top. They are exhibiting an excellent *indica*-style bud structure that is obviously going to become big, dense and bulbous. And trichome production is amazing already—seems as if the plants will be dripping with resin soon! Their smell is sweet, sweet, sweet and a bit fruity, really reminding me of the Hubba Bubba gum I used to chew as a kid.”

After 56 to 60 days of flowering, all five plants were fully ripe and harvested by the Doc. Two of the plants ended up at heights of 120 cm, with the rest coming in at 118, 115 and 87 cm. The Doc was stunned by the results: “These plants are breathtaking—I’ve fallen in love with them. So many beautiful branches, so many well-built, thick, hard buds, and so incredibly much resin ... off the charts! The buds are so heavily resinous that they look like they were cast in glass. And I’ve never smelled such a marvellous mild and sweet—but at the same time, most intense and special—aroma. Without a doubt, this is the real Bubblegum deal!”

Bubblegum colas fill out nicely with tasty nuggets.





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Dried, Cured and Smoked

As the Doc had expected, the harvest when dried of the four tallest Bubblegum plants came close to or slightly exceeded the 100-gram mark: They yielded 107, 104, 96 and 92 grams, while the smaller plant yielded 86 grams. And that intense aroma had translated into a lovely dry-bud aroma after three weeks of drying and curing, entirely preserving its trademark bubblegum fragrance.

Of course, the Doc was even happier when it came time to test-smoke some of those wonderful Bubblegum buds that had turned into rock-hard and super-sticky nuggets after the drying process. "While it seemed impossible that these picture-perfect buds would disappoint me," he reported, "even I was flabbergasted by what they did with me: After a few tokes, my head felt like one big bubble due to a heavy *indica* punch, making me stoned to the bone for at least two hours. It's amazing that after more than 20 years, T.H.Seeds' Bubblegum strain is still totally blowing my mind! And its flavor proved to be as fresh and tasty as ever, packed with an intense organic sweetness—almost like smokable candy floss. Yummy-yummy!" Indeed, he adds, thanks to its awesome yield and quality, Bubblegum has now made it to the Doc's personal top 10 of favorite cannabis strains. ✨

Cultivation data:

- Strain** Bubblegum (mostly *indica*)
- Vegetative stage** Five weeks
- Flowering stage** 56 to 60 days
(55 to 60 days in general)

- Medium** Plagron Light Mix soil, 11-liter pots
- pH** 5.5 to 6.2
- EC** 1.2 to 2.0 mS
- Light** Up to 2 x 600w MH and 1 x 400w HPS in the vegetative stage; 2 x 600w HPS and 1x 400w HPS in the flowering stage

- Air humidity** 40% to 60%
- Watering** By hand

These dried and cured Bubblegum buds are ready to burn.





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BUD AID

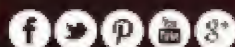
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Explore the eco-friendly growing practices of the Cannabis Cup champions at Santa Cruz Mountain Naturals.

Sustainable Sativa

*By Elise McDonough
Photos by Lochfoot*

Super Cannalope
Haze is a new breed
of *sativa* being
grown using eco-
friendly methods.



crackerjack-adj.
Slang. Of excellent
quality or ability;
fine. n. Someone
or something
of marked
excellence.

—*The American Heritage
Dictionary*

It takes a particular combination of art, science and perseverance to win a Cannabis Cup.

A grower must possess top-notch genetics, for starters, and then put in the time and effort required to truly understand the vagaries of the individual strain and its unique needs. Winning entries express the best possible representation of a given variety and have been grown, harvested, trimmed, and cured by experts.

Standing in the winners' circle is an achievement that many cannabis cultivators consider their proudest moment in the field—the culmination of years of work learning their craft and refining their chosen flower.

Colin Disheroon, the CEO of Santa Cruz Mountain Naturals, has inhaled this rarefied air not once but three times in the last three years for his dispensary's Cracker Jack *sativa*, capturing a third-place award in 2012, followed by two back-to-back first-place finishes in 2013 and 2014. Disheroon is also deeply rooted in the movement for greener ganja, gaining professional experience in both environmental education and parklands management before devoting himself fully to cannabis.

"I figured now's the time to combine my background in sciences with my passion for the plant," Disheroon says about founding

SCMN. "I decided to spend my energy on growing a quality product along with bringing the community together."

The small collective, founded in 2009, believes this commitment to eco-friendly cultivation and passionate local cultivators has played a big role in its incredible success.

Santa Cruz Mountain Naturals features up to 30 strains at a time, all grown in soil using eco-friendly nutrients, with a third of its stock certified "Clean Green" by former US Department of Agriculture inspector Chris Van Hook.

"We need a third-party certifier to approve cultivation practices," Disheroon explains, "so Chris inspects a farm looking for nutrients and soil amendments, sanitary conditions, banned ingredients and wastewater drainage." Those "banned ingredients" include known carcinogens such as paclobutrazol, a flower hardener used by growers to bulk up their buds, and floramite, commonly used in Avid.

"We don't want our patients smoking that stuff," Disheroon says, "much less have it polluting our streams."

Located in Aptos, just south of the surf town of Santa Cruz, the SCMN dispensary does brisk business, even early on a Wednesday morning. And Disheroon says that winning multiple Cups definitely helped to get the word out.

"When we took first place, we were blown away. We couldn't keep Cracker Jack on the shelves!" Even months later, demand is still outpacing supply for eco-friendly weed and solventless hash. Disheroon sees his demographic as 35- to 50-year-old patients "who take good care of themselves and care about the environment." He also believes that a growing consciousness about the environmental benefits of organic medicine is driving patient demand: "The best-quality medicine is going to be grown in small batches by growers who are passionate about the plant."





This crop of Cracker Jack is just about ready to harvest.

The San Lorenzo Shaman

The dispensary's award-winning Cracker Jack is actually grown by a very charismatic gentleman farmer known only as the San Lorenzo Shaman, or more simply as Lorenzo.

"We select vendors, not flowers," Disheroon says of his approach. "As a person, Lorenzo's really passionate about benefiting others, and that's important."

The first time Lorenzo brought in the XJ-13 that would later become Cracker Jack, the flowers were rejected. But rather than become discouraged or resentful, Lorenzo viewed it as a learning experience and devoted many hours to studying pure nutrient amendments, extracts, teas and biological activity.

"When he started, the flowers he grew were small and not very frosty, and there was no strong odor," Disheroon says of that first batch. "But I saw the potential in Lorenzo, so we spent hours together over the next couple of months, talking about his cultivation area, soil composition, watering, feeding, air flow, lighting, nitrogen consumption, recycling soil ... We really got into the details."

With each visit, the XJ-13 improved. Over the span of nine months, Lorenzo

refined his selected phenotype, backcrossed his cut to the popular Jack Herer, and customized his cultivation process before returning to SCMN and presenting his newly christened Cracker Jack. On that last visit, Disheroon recalls, "he brought fully developed buds—the trichomes were ripe, the odor was there, the cure was pretty close, so we cured it a little more and put it on the top shelf."

When that crop later took third place at the Bay Area Cannabis Cup in 2012, Lorenzo felt vindicated—but he also vowed to keep perfecting this methods.

"I'm not a genius," he says modestly. "I'm 71 years old, and every day I continue to learn."

Humble curiosity defines Lorenzo, a grower with more than 30 years' experience who credits the "living soil" philosophy developed by researchers Elaine Ingham and Jeff Lowenfels with bringing him to a whole new level of understanding cannabis.

"I learned more in the last three years than I did in the first 30, after I started studying the soil-food web," Lorenzo says. "I feel like I earned a degree in soil microbiology!"

5 Tips for an Eco-Grow

Go green with these tips from Santa Cruz Mountain Naturals and Canna Cruz Gardens.

Recycle used nutrient bottles.

Take your bottles to a nearby recycling center, along with used light bulbs, which contain dangerous mercury.

Shift to organic nutrients.

You should always avoid products that use toxic ingredients like paclobutrazol.

Go outdoors.

SCMN is adding greenhouses that will produce sun-grown buds and reduce its carbon footprint dramatically.

Retain water.

Adding an organic carbon base to your soil (such as well-composted horse manure) will help retain water, meaning you will use much less of it.

Keep it clean.

Staying on top of garden maintenance means not having to resort to costly chemical fixes when dirty spaces lead to pests and other problems.

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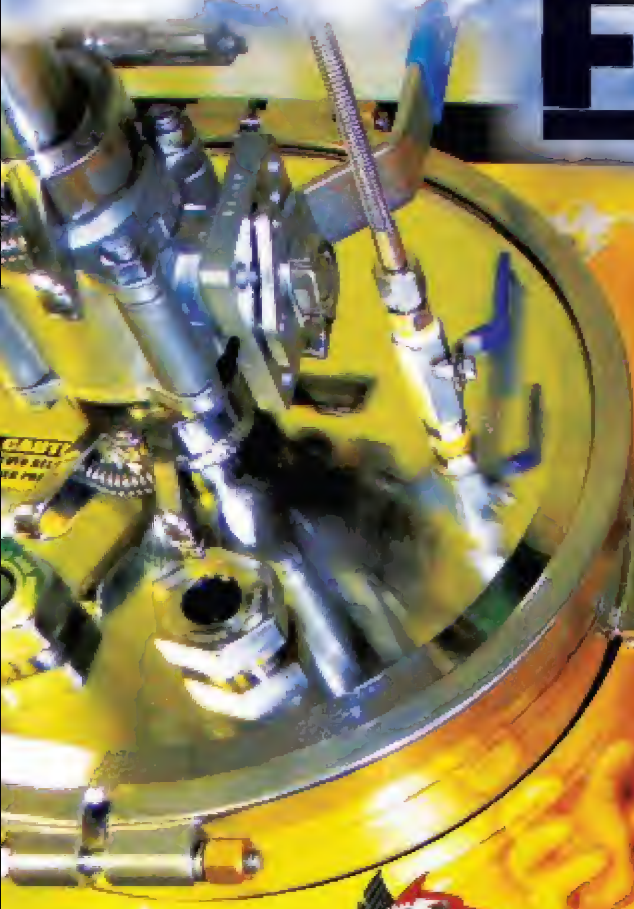


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Growing outdoors reduces your cannabis carbon footprint significantly.

Off to See the Wizard

Journeying through the redwoods deep into the Santa Cruz Mountains to visit Lorenzo's growroom is like a journey back in time.

"We started out growing here in a state of paranoia," Lorenzo says, while showing off a secret door that leads to a hidden room in this remote mountain cabin. "Now I feel like I'm coming out of the closet!"

Lorenzo's secret garden houses three generations of Cracker Jack plants in various stages of growth. It's the only strain he's grown for years.

"Pick a few strains that you really connect with," the Shaman advises. "Don't try to grow a wide variety, and always respect the individuality of the various plants. I used to grow 10 different strains at once, but I realized they all needed something different. Once I narrowed it down to just the XJ-13, things got a lot easier."

The XJ-13 also had to be stabilized, which meant finding a special phenotype

to work with and then introducing those Jack Herer genetics. The Cracker Jack that resulted from this artful cross produces a distinct, deeply floral aroma with hints of lemon, plus an electrifying *sativa* high that leaves you clear-headed and perceiving the details of the world with laser-like accuracy.

A morning joint of Cracker Jack is more than just uplifting. It delivers a jolt comparable to a nice cup of espresso—one that certainly keeps a grower on his toes, if not a little giddy.

Pointing out the 24 budding plants ensconced in their 5-gallon pots in his flowering room, Lorenzo says: "I sing to them, you know. But I don't think there's anything magical about it."

What is magical is the quality of the boutique buds emerging from this small basement hideaway, where three separate chambers house plants four weeks apart in their various stages of growth. The flowering room measures 7.8 by 16 feet with a 10-foot ceiling, forming a space of

1,250 cubic feet. All of the air is exhausted and refreshed every two minutes, which Lorenzo says controls humidity, temperature and mold, as well as providing more than enough natural CO₂. The indoor environment is a refreshing 64°F, with a gentle breeze ruffling the leaves.

"A very important part of the air-circulation system involves oscillating fans that move every single leaf in the room every single moment," Lorenzo says. "To me, that's the beginning of dealing with some of the disadvantages of indoor growth."

Trimming all lower secondary branches from the bottom nine to 12 inches of the stem allows for better air circulation, along with pruning the higher main branches several times to increase the size, spread and number of colas, creating a "sea of green" *sativa* garden that fills nearly every square inch of the room with large, dense, potent buds.

Overhead, six 1,000-watt Eye Hortilux bulbs in horizontal 6-inch glass Cool Tubes with reflectors connect directly to the exhaust system and illuminate the space with 67 watts (or 6,700 lumens) per square foot. The Shaman changes these bulbs every four months for maximum efficiency.

"This high light intensity allows me to keep the bulbs three to four feet above the canopy, eliminating hot spots and shaded areas," Lorenzo explains. "I'm experimenting with reducing this intensity during the last five or six weeks of flowering by using dimmable electronic ballasts."

Before reaching the flowering room, the Cracker Jack vegetates for four weeks under 16 hours of light. Then it flowers for 10 to 11 weeks under 12 hours of light, growing to an average 43 to 53 inches in height.

"When I do nearly everything right, these beauties produce from 6 to 8.3 pounds every two months," Lorenzo says. "That is 1 to 1.4 pounds per light, or 4 to 5.5 ounces per plant, averaging at 23.75 percent THC."

Below the soil, these Cracker Jack ladies feast on pure extracts and compost teas designed to provide resistance to pests as well as superior flavor and nutrient absorbability.

"I was determined not to put poisons into what I was selling. Part of the soil-food-web concept is that you're feeding the microbes and fungi in the soil, which in turn feed the plants," Lorenzo says, underscoring the importance of knowing the science behind this revolutionary sustainable horticulture. "It's not just about the cannabis industry; it's about how we interact with nature."

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Responsible Growing

Motivated by the desire to foster more environmentally responsible cannabis cultivation in Santa Cruz County, SCMN's Disheroon has extended his activism to local politics, meeting with the County Board of Supervisors to address the impact of pot growers on streams, hillsides and forests.

"Electricity consumption is causing a huge increase in our carbon footprint, but that's been forced on us by the government," Disheroon explains. "We need large spaces for greenhouses, located away from relatively pristine areas. Right now it's the Wild West in the mountains— people snatch up a piece of land and then it's chainsaws and tractors. I've seen the damage in aerial photography."

That's why Disheroon, along with SC Labs director Ian Rice, has formed a working group dubbed the Association for Standardized Cannabis, which is aimed at developing solid regulations and compliance programs to help cultivators navigate complex building codes, timber-harvest plans, and conflicts with county, state and federal law to create a sustainable local industry.

"Communities need to organize themselves in a way where they can keep their livelihood going and deal with bad actors," Disheroon says. "And good actors need to excel by having proper regulations—that's what California has to do."

In the meantime, he's already helped prove that you don't need industrial fertilizers or pesticides to grow a Cannabis Cup-winning crop! ✨

DNA Test

Canna Cruz Gardens provides a sneak peek at four new strains it's tested for DNA Genetics, using organic methods for surprising results.

"These are cuts nobody else has," says Michael Owens, the proprietor of Canna Cruz Gardens, with a gleeful wink that belies his sharing nature. "I'm like a kid in a candy store!"

A professional horticulturalist with a background in greenhouse management, Owens has lately applied his all-organic methods to a number of DNA Genetics' strains with considerable success, winning several local contests with his signature Chocolope. So when he had a chance to meet Don and Aaron, the founders of DNA, they asked him to test out

some unreleased hybrids and report back to the mothership with his thoughts on their new genetics.

When evaluating test plants, Owens looks for proper structure and rate of growth, scent, resistance to pests and diseases, as well as medicinal qualities.

"Tangelope [Tangie x Chocolope] was bulletproof!" Owens exclaims. "A wonderful chocolate-and-tangerine scent, no mold, no bugs ... it's a solid contender." Super Cannalope Haze also finished strong, with Owens praising its stability and lemon-pine flavor. "With any F1, you experience a lot of variation, but the Super Silver Haze x Cannalope was a stable line with excellent hybrid vigor."

The largest plant in the garden

was undoubtedly the LA Confidential x Shrom, lauded as a "light feeder with sturdy stalks, also bug- and pest-resistant." The Shrom (Santa Marta Colombian Gold x Romulan) is a revival of an older variety favored by trimmers for its compact structure, which Aaron from DNA says "makes excellent hash." The Sour Skunk (Sour Diesel x Skunk #1), another standout new hybrid with a unique garlicky odor, grew huge colas maxed out on veganic compost teas and Dragonfly Earth Medicine nutrients. "I always really enjoyed growing out packs of different seed," Owens says. "This is just on a grander scale—selecting from 30 to 50 plants for the best contenders."

Using no synthetic chemical

sprays or fertilizers, Owens combats the omnipresent threat of powdery mildew with lactic-acid bacteria, using beneficial microorganisms to outcompete the pathogens, along with essential oils of rosemary, mint, and basil brewed into teas and used as insecticides. Providing cannabis for 30 patients of the Redwood Coast Collective, Owens believes that "organic herb is the most medicinal. Using organic methods is more work, but it's more rewarding—and the medicine speaks for itself."

Hopefully, cannabis consumers nationwide will be able to try Tangelope, Super Cannalope Haze and more in the coming seasons, as DNA Genetics continues to refine and test these super new strains.

Tangelope





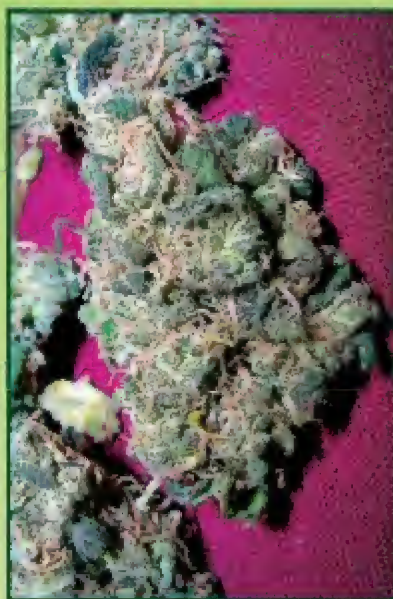
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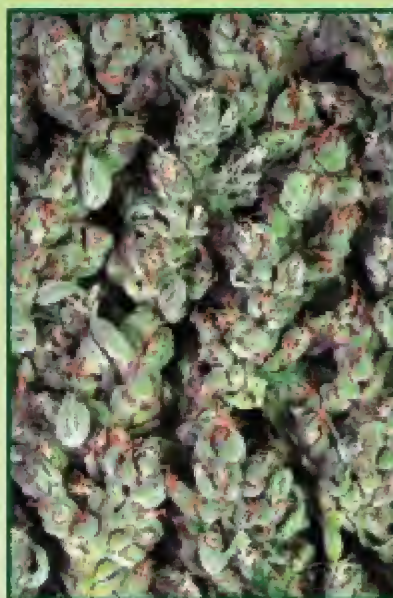
Cracker Jack



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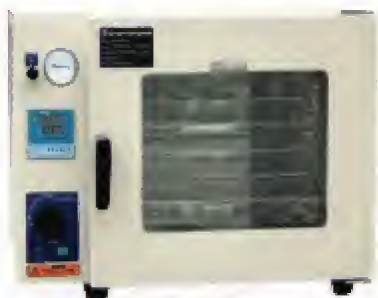
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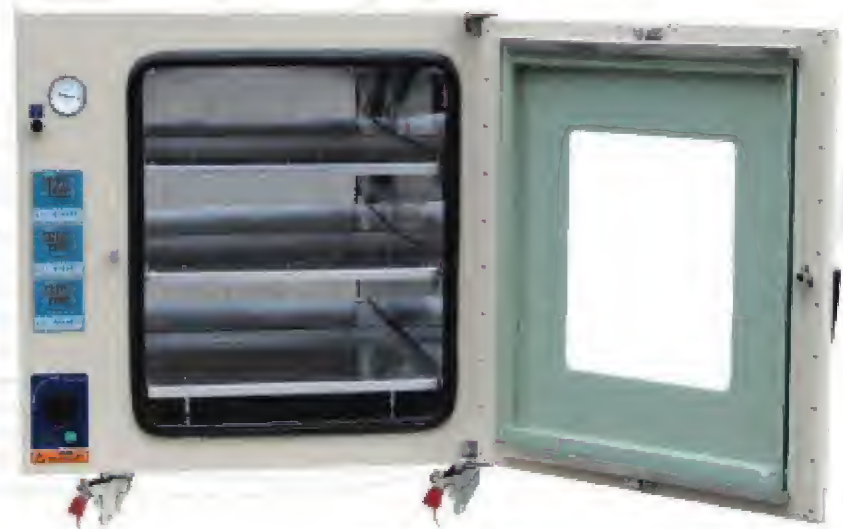
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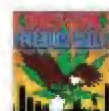


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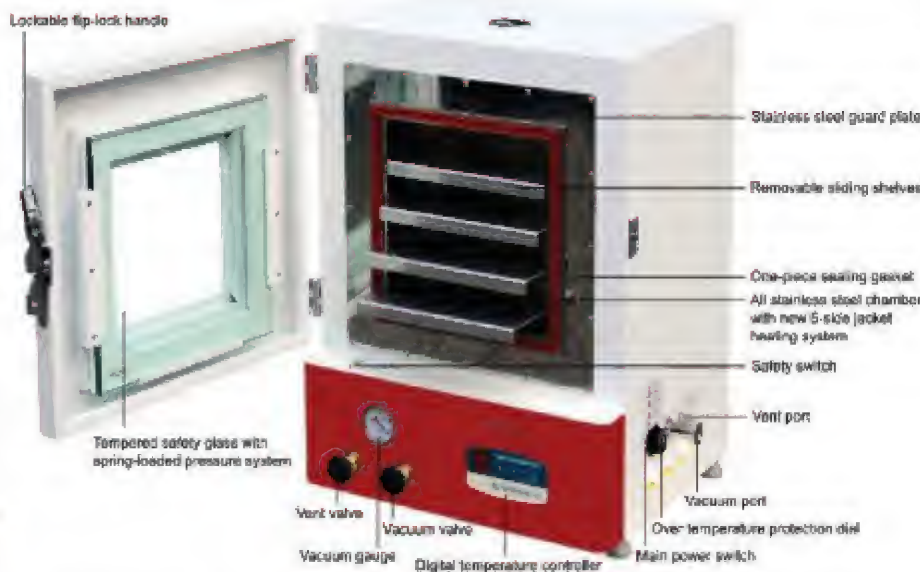
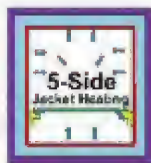


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Such a Fine

A large indoor cannabis cultivation facility, likely a greenhouse or grow room, with rows of cannabis plants. The plants are in various stages of growth, some in black pots and others in wire cages. The structure is made of metal frames and translucent panels, allowing natural light to enter. The floor is concrete, and there are some wooden stakes supporting the plants.

The Medicine Room in Winslow, AZ, has established a thriving cannabis operation that produces great weed and a variety of edibles. Surprisingly, it appears that the high desert is a great place to grow!

*Story by Samantha Nicholas,
Photos by Dan Skye*

Sight to See



The crops growing in this expansive growhouse of the Medicine Room will yield over 250 pounds.

Before the interstates arrived, US Route 66 was known as the “Main Street of America,” a road that began in Chicago and stretched across the Southwest, finally ending in Santa Monica, CA. It spanned nearly 2,500 miles and was made

famous in the song “(Get Your Kicks on) Route 66.”

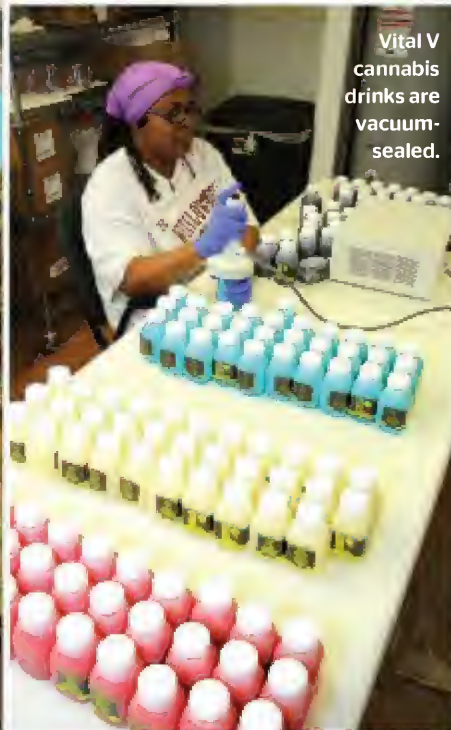
Winslow, AZ, was one of the bustling tourist towns along that fabled highway. But in 1977, Interstate 40 was laid across northern Arizona and bypassed Winslow. Longtime residents say the event left the town psychically adrift.



These freshly cut branches of Arizona buds provide ingredients for Medicine Room edibles.



The Medicine Room is a converted gas station.



Vital V cannabis drinks are vacuum-sealed.

“Why Winslow?” It’s a town of under 10,000, situated at nearly 5,000 feet on the high desert.



The Eagles immortalized Winslow in “Take It Easy.”

Winslow did have one other claim to fame, though: The Eagles immortalized it in their 1972 hit “Take it Easy”: *Well, I’m standin’ on a corner in Winslow, Arizona / And such a fine sight to see / It’s a girl, my Lord, in a flatbed Ford / Slowin’ down to take a look at me.*

Those lyrics became the impetus behind efforts to rebuild the town’s tourism industry in the 1990s. A statue of a dude now stands on a corner in downtown Winslow with a flatbed Ford permanently parked at the curb. Music from the Eagles plays nonstop through public speakers.

The Medicine Room is also putting Winslow back on the map. It sits right off the Winslow exit of I-40, a former gas station that now houses a dispensary, an edibles kitchen and an extraction lab. Behind the building, a massive greenhouse of 8,000 square feet, built this past summer, is on the cusp of harvest.

It wasn’t easy getting here. Medical

marijuana initiatives were passed twice in Arizona, first in 1996 and then in 1998, but the wording of these laws failed to protect medical marijuana patients from arrest. A third initiative in 2002 never found any traction. Then, in 2010, Proposition 203 made the ballot; known as the Arizona Medical Marijuana Act, it barely passed, garnering 50.13 percent of the vote. Once medical marijuana was sanctioned, prospective cannabusinesses were forced to enter a lottery staged by the Arizona Department of Health Services for one of 99 available dispensary certificates.

Luck was with the Medicine Room, but the obvious question is: “Why Winslow?” It’s a town of under 10,000, situated at nearly 5,000 feet on the high desert—hardly the ideal place to start a business centered on cannabis growing.

David Berkovits, one of the Medicine Room’s co-owners, was previously involved in the cannabis industry in

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The Medicine Room crew
(Berkovitz in sunglasses;
Cox in camouflage)

“From a grower’s perspective,” David says, “I can’t think of a reason I would ever go back to strictly an indoor environment—ever.”



The 8,000 square-foot
greenhouse supplies
flowers to dispensaries
statewide.

Colorado. “We put in the application for five different possible locations,” he says. “Winslow was the only one where our number came up. We knew that we couldn’t depend upon a thriving retail scene in a small town; we needed an operation that would service the industry. We decided to open a location and offer quality topicals and edibles as wholesalers to the rest of the state. So that’s what we’ve done. It’s been nearly two years of construction to get to this point. We’ve built a friendly retail location for patients; we’ve got our kitchen and extraction lab. But, of course, the heart of the facility is the greenhouse.”

The Medicine Room crew says they’ve taken a “holistic view” of the entire operation. David explains that a greenhouse allows additional grow cycles and efficiently retains heat during the winter. “We can open her up during the daytime

and let in natural light,” he says. “And we can add supplemental lights to extend shorter days to at least 12 hours.”

The greenhouse’s cooling is controlled by a water wall. Water absorbs a relatively large amount of heat when moving from a liquid to a gaseous state, so a water wall is basically a cooling system that combines forced air ventilation with the ability of evaporating water to remove heat from the greenhouse. “It acts like a big sponge at one end,” David explains. “Powerful fans draw air through the sponge, which drops the temperature and draws the cool air through the entire greenhouse. Overhead circulation tubes recycle the air and help distribute CO₂ and heat in the winter.”

As yet more proof for the sustainability and inexpensiveness of greenhouse growing, the Medicine Room’s electric bill is only \$4,000 per month for the

entire operation. “From a grower’s perspective,” David says, “I can’t think of a reason I would ever go back to strictly an indoor environment—ever.”

This past autumn, the Medicine Room pulled in the first harvest from its new greenhouse—a haul of well over 250 pounds. A considerable amount of those buds are transported to dispensaries throughout the state with a larger patient base to serve. But one of the Medicine Room’s foremost priorities these days is establishing its edible and topical product lines as premier industry brands.

Chris Cox attended California Polytechnic in San Luis Obispo, where he majored in food science. Then he worked with Cheeba Chews, the popular cannabis edible company based in Colorado, before meeting David. Once the pair met, Cox saw the Medicine Room as the

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This gorgeous specimen of Master Kush is a Medicine Room favorite.



perfect launching pad for Ganja Goo, his line of saltwater taffy treats that includes Budderscotch, Nugs, Buds and Sticky Lickie Lollipops. The Medicine Room also co-owns and carries the Vital line, which includes THC and CBD hard candies, chocolates, honey sticks and fruit juices in five flavors, as well as balms, tinctures and lotions.

The Medicine Room employs a staff of 20 and has made a point of hiring locals. That's important in a place like Winslow, Chris says.

"It's a small town like any other," he explains. "You gotta come with a really positive attitude. Of course, David and me had to assume the positions that require some industry experience, but building a foundation for Arizona's new industry means that we need Arizona people working at the Medicine Room."

Law enforcement has been helpful, primarily because the dispensary makes the job easier. In Arizona, you can't grow if you live within 25 miles of a dispensary. "We gave a tour to a sheriff the other day," Chris says. "He had a great time—smiles the whole time. The black-market issue is what they care about, but those grows are just disappearing. Buyers come here: It's safer, it's easier,

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To assure the Medicine Room's future, its owners know that they have to unite with other dispensary operators to monitor the industry's progress and pitfalls. “As soon as the licenses were issued,” David says, “those of us who had been involved in the industry had already come together to create a group—the Arizona Dispensaries Association—that could collaborate and address the important rule changes that will continue to take place. We need to push the industry's agenda, not our own, to make things easier.”

So what's the agenda of the ADA? “We're on the front lines,” David says. “We want to see our industry move forward—and, eventually, that means full legalization. It's funny ... a few days ago, MPP [the Marijuana Policy Project] held a meeting regarding a legalization bill in Arizona. Dispensary owners were there in force. We're the ones who will fund the campaign; we're the ones whose business future is at stake. We want to make sure our voices are heard.” ✨

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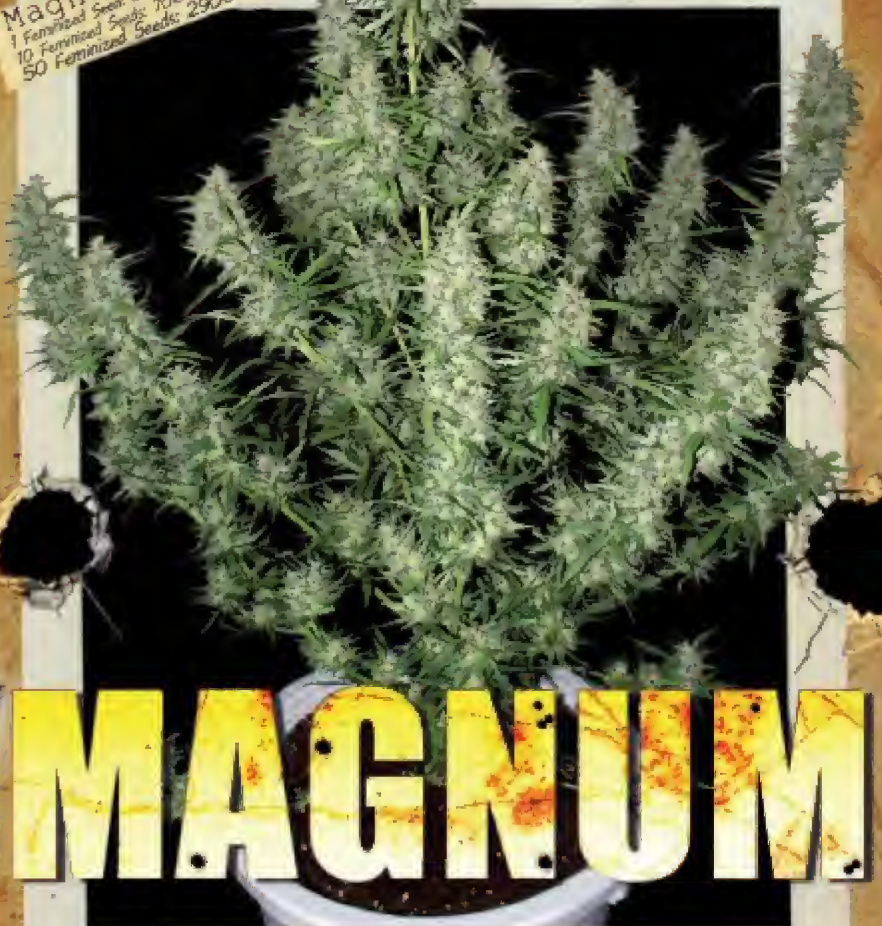


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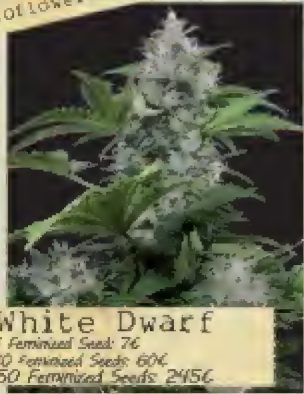
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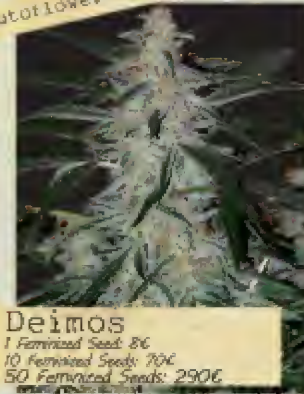
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Insane Clown Posse vs. the FBI

Guess what? If you're a Juggalo, you're the member of a dangerous gang. Chalk up yet another example of America demonizing those who choose to be different.

By Steve Miller



In October 2011, the Federal Bureau of Investigation declared that Juggalos—devoted fans of the rap duo Insane Clown Posse—are members of a violent street gang.

Not surprisingly, no one in the Insane Clown Posse's camp wanted to tell the guys in the band. That's the kind of bad news that the crew at Psychopathic Records, the ICP's label, were sure would make for a really bad day.

Psychopathic Records had prospered on the backs of Violent J and Shaggy 2 Dope, né Joseph Bruce and Joseph Utsler, perhaps the most underrated performers on the rap circuit, who sing with rapturous glee of dead bodies, mass murders and anything else that might be considered by most people to be violently taboo.

Juggalos are known for being both rabid and faithful, with some owning more than 300 of the band's T-shirts as well as complete collections of the ICP's prolific output, which includes two platinum and five gold platters.

Before the FBI report, several states had already declared the Juggalos to be gang members, but that was small shit compared to the heft of the Feds' announcement. Now, the FBI was issuing its biannual report on national gang activity and declaring that the Juggalos were right up there with the Crips and the Bloods when it came to wreaking havoc on the streets of America.

The mood of the usually spirited crew at Psychopathic Records, a sprawling compound in an industrial area north of Detroit, was subdued that autumn morning. They talked among themselves and, every once in a while, broke into whispers. Someone would look at a computer screen, then look away.

And Violent J was getting suspicious. "The FBI report" and "Juggalos are a gang" were the words he'd picked up.

"What? What is it you're talking about?" he said. "There's something you guys aren't telling me."

So someone finally had to deliver the bad news, showing the relevant section of the FBI report to J and Shaggy.

And they read with disbelief.

"Most crimes committed by Juggalos are sporadic, disorganized, individualistic, and often involve simple assault, personal drug use and possession, petty theft, and vandalism," the report stated. "However, open source reporting suggests that a small number of Juggalos are forming more organized subsets and engaging in more gang-like criminal activity, such as felony assaults, thefts,

robberies, and drug sales."

The report also claimed that Juggalos had infiltrated the Army and the Air Force, meaning their ranks now included "military trained members."

"Law enforcement reporting suggests that Juggalo criminal activity has increased over the past several years and has expanded to several other states. Transient, criminal Juggalo groups pose a threat to communities due to the potential for violence, drug use/sales, and their general destructive and violent nature."



Juggalos are known to be rabid and faithful fans.

The report also claimed that Juggalos had infiltrated the Army and the Air Force, meaning their ranks now included "military trained members."

"Cool as in Fictitious"

Initially, J and Shaggy took the report as just one more point of pride in the battle of "us versus them" that the Juggalos have long fought. "At first, I thought it was cool," J recalls. "I didn't realize what it meant for Juggalos. I was like, 'Fuck 'em. We *are* a gang—that's Juggalos.' We didn't understand the way it would play out and how much it affected our business. But most important, it takes everything we've done and shits on it and says, 'This is nothing but a street gang.'"

Adds Shaggy: "I first thought, 'That's fuckin' awesome, that Juggalos have this network and people think Juggalos pose a threat.' I know they don't, but I thought it was great that the FBI thinks Juggalos are like MS-13 [the infamous

transnational drug gang]. You know: 'Fuck, yeah—Juggalos! We'll fuck you up!' But I was really thinking it was cool as in *fictitious*, the same as our music is. We don't roll around with dead bodies hanging out of our car, and we aren't gang members," Shaggy adds. "But this was real life."

The cover of the band's second record, *Ringmaster*, features a character with claws that represent rival pseudo-gang signs—forks up and forks down. It's an inside joke by J and Shaggy, who failed miserably when trying to assemble their own gang back in the late '80s, when they were teenagers with a fondness for theft and violent movies like *A Clockwork Orange*.

No one would join up with them, however, and they realized that they could gain more popularity as musicians. Millions of fans later, it seemed like a solid move.

But now, 25 years later, according to the Feds, they finally do front a gang. And it's a lot bigger than they ever dreamed.

"To think that it can happen to us ... I was like, 'Are we going to go to jail?'" J continues. "If they can do that to a worldwide fan base, can they lock us up?"

So, in the end, they fought the law.

In July 2012, a website called *Juggalos Fight Back* went online, collecting complaints from Juggalos who had been harassed by police. At the 2012 Gathering of the Juggalos, the annual festival put on by Psychopathic Records, a trailer was set up solely to take down statements from Juggalos who had been hassled by law enforcement for their connection to the culture.

"We got 8,000 responses very quickly on the website," says Farris Haddad, a Detroit lawyer who handled the complaint process. "We got them from Italy, Russia, from all over." By the end of the year, the site had registered 10,000 complaints.

In August 2012, J and Shaggy told the world of their intention to fight the Feds legally. Five days later, their lawyers filed a Freedom of Information Act request with the US Department of Justice, asking for all of the documentation that led

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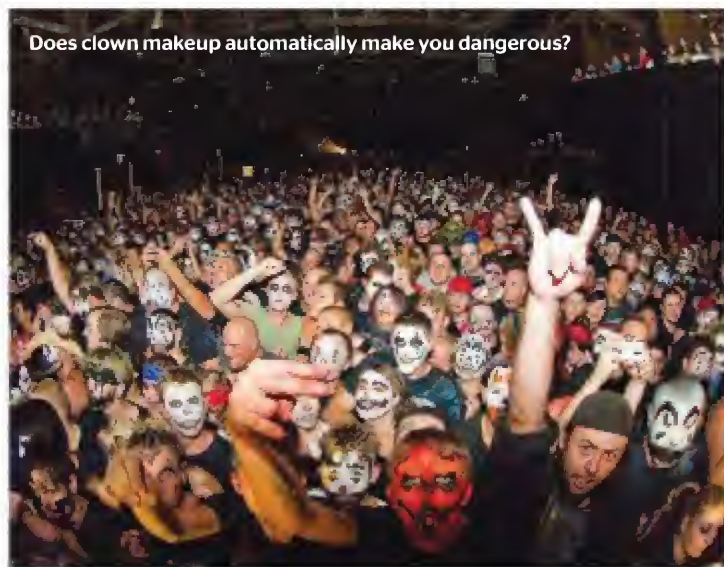
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to the Juggalos' gang designation. The Feds refused to hand it over.

In September, the ICP's lawyers filed a lawsuit to compel the release of that information. It was finally delivered in a form so heavily redacted that no one could determine the genesis of that gang designation.

In January 2014, four citizen complainants as well as Joseph Bruce and Joseph Utsler, a.k.a. the Insane Clown Posse, sued the Justice Department and the FBI, alleging, among other things, that the gang designation infringes upon their right of free association—one of the tenets of the First Amendment.



Gathering of the 5-0

Insane Clown Posse is a "horrorcore" rap-metal act known for its scary clown makeup and elaborate, theatrical concerts that have featured open fires, chain saws and liters of soda dousing the audience.

—the Sioux Falls (SD) *Argus-Leader*, describing an upcoming ICP concert (September 10, 2014)

The Insane Clown Posse has never featured open fires or used real chain saws during a show. However, that fountain of misinformation has been spewing for a long time.

Federal law-enforcement agents, like most cops, live on the mainstream side of the fence, in a world where different means bad. However, never before had federal agents singled out the followers of one specific band and made them subject to enhanced criminal penalties, as a so-called gang affiliation does.

Even before the FBI came out with its pronouncement, law enforcement in Arizona, California, Pennsylvania and Utah had classified the Juggalos as gang

members. In any state, when someone deemed a gang member is detained, their tattoos are photographed and entered into a database for future reference. In some states, a gang member can receive an enhanced sentence up to five years longer for the same crime.

The Feds have believed the Juggalos were a gang since at least the mid-2000s. A memo from 2008 out of the FBI's Springfield, IL, office claimed that there had been 22 drug-related arrests at the 2007 Gathering. It also falsely stated that ICP merchandise includes hatchets, as in the chopping wood (or chopping heads) variety.

In November 2010, noting that the Juggalos had already been deemed gang members in several states, an FBI agent in the Salt Lake City office began taking a deeper look into the situation. He delivered his information to an agent at the National Gang Intelligence Center in Washington, DC. From there, the federal crusade against the Juggalos was launched.

Over a two-year period, the FBI analyst in DC sent emails to law-enforcement agencies across the country asking 10 questions about their encounters with Juggalos. (The Feds have refused to provide that list of questions to the public.) The responses ranged from low-level jail supervisors in California to an "intelligence analyst" in Nashua, NH, who emailed a local newspaper article about a 2009 home invasion in which the cops alleged that one of the perps was into Charles Manson, White Zombie and Insane Clown Posse.

One respondent from a police department in Texas had spoken on Juggalos to attendees at the Texas Gang Investigators Association in 2006—at a seminar called "Gangs and Music"—and had met a number of officers working on "Juggalo gang crimes." Another from Oregon posted a link from an anonymous blog called *Juggalo Holocaust*, which describes itself as the website of an "anti-Insane Clown Posse and Juggalo group."

Nothing concrete was revealed in terms of a criminal conspiracy, but the respondents certainly provided a wealth

of media coverage in the form of ridiculously uninformed, half-baked and dubious articles about the Juggalos, based largely on police assertions.

Despite the absence of facts on the ground, the federal gang designation touched off waves of seminars, conferences and strategy meetings aimed at stemming the Juggalos' influence. Cops who had never heard of the Insane Clown Posse were now being told how to spot a Juggalo.

"If you were to see a car with a hatchet-man sticker, would you pull it over for probable cause?" The correct answer, obviously, should be "no"—such profiling violates any number of civil-rights statutes. But it's a question that arose at a Juggalo "seminar" for law-enforcement agents held in Arizona in 2013. And these types of seminars have become increasingly frequent.

One member of law enforcement in the Midwest spoke on the condition of anonymity. There are two reasons for this. One is that he's providing what could be termed "intelligence"; the other is that he is, in fact, a Juggalo himself: He goes to see ICP concerts and has even attended a Gathering or two.

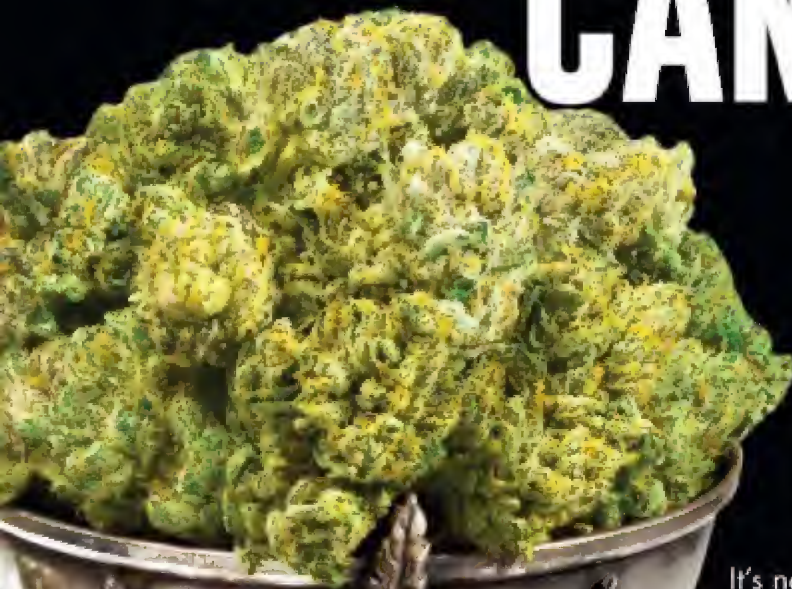
"And I can be terminated for that," he says. "I mean, just for going to an ICP show."

He went to a Gathering in Illinois in 2012, and when he returned to work, he was called into his supervisor's office. (Facebook photos were the giveaway.) He was grilled for two hours. One of his peers told him he didn't trust him with his back any more—all because he liked the music of a couple of entertainers dressed as scary clowns.

The intelligence sessions for law enforcement began in earnest with the FBI report, this person recalled. Departments with no prior knowledge of what a Juggalo was began to appoint "specialists" who could teach a class, with the officers cramming down hours of the ICP's music, poring over newspaper clips and websites devoted to the band, then reporting back.

The cop is now tapped every couple of months for his knowledge. "I get asked about their colors—they aren't a gang, so they don't have colors—and about the hatchets, initiations, face paint." This information is then presented at law-enforcement gatherings like the West Coast Gang Conference. The assembled cops chew the intelligence over; some take notes. Then it filters back to the officers on the street, for use the next time they see someone with an ICP tee or hatchet-man logo on their jacket.

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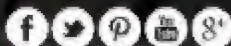
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Lawyers, Clowns and Money

In June 2014, a team of lawyers representing the Insane Clown Posse and the other plaintiffs gathered at the Theodore Levin US Courthouse in downtown Detroit. This was the hearing that would determine if the band's case against the Justice Department would move forward or hit a wall of endless appeals.

To argue its side of the case, which would set a precedent for any group on the FBI's gang list that had the balls and resources to fight back, the Feds turned to Amy Powell, one of the Justice Department's top lawyers when it comes to defending government programs and agencies. Her 15 years of experience in federal court have brought her power and respect, as well as the confidence of her superiors.

While the plaintiffs had a gaggle of legal talent in its corner, Powell took the defense table alone.

After the hearing, Powell watched the lawyers for ICP hold a press conference across the street, standing on the courthouse steps. There had been rumors of a settlement in the case, which would be an amazing legal feat for the ICP—in essence, wringing a “We fucked up” admission by the Feds that would



Shaggy 2 Dope and Violent J.

be cause for celebration by First Amendment fans everywhere.

These are always secretive deals, however: No one on either side talks about them openly for fear of derailing the whole thing. And that was true when Powell was asked about the rumors.

“We’re always interested in talking,” she said.

But what would that entail in this case?

“I can’t talk about the details,”

Powell replied, inadvertently confirming that a settlement had been discussed.

When asked why the Insane Clown Posse would mount such a legal action in the first place, Powell said with a smile: “It’s good for

the brand—sticking it to the man.”

One month later, however, US District Judge Robert Cleland dismissed the lawsuit against the FBI and the Justice Department filed by the ICP and the four Juggalos. The judge agreed with the Justice Department’s contention that the FBI’s report is just a report, and that the federal government bears no responsibility for how local cops use it.

The case is now on appeal. More lawyers, more money.

“Whether or not we can defeat the FBI, that’s one thing,” Jay says. “But it’s important that people know we are fighting it. We cannot just stand back and say, ‘Yes, that’s correct—the Juggalos are a gang.’ It’s like being called the bad guy out of everybody at the party. It’s like a big fat finger pointing down from the gods, saying: ‘Fuck you—you know you shouldn’t be here. Your fans aren’t fans; they’re a gang, and that makes you gang leaders—or some kind of shit.’ It’s scary to me. It’s not scary during the day, when I’m with my boys and talking about fighting it. But when I’m at home, chilling with my family, it’s so big to have the government say something like that about us.” *

Check out more juggalos: hightimes.com/ICP



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INTERVIEW BY
DAN SKYE

KEVIN GOGAN

THE HIGH TIMES INTERVIEW

Former Dallas Cowboy
Kevin Gogan wants to see
cannabis score in the NFL.



ALTHOUGH PROFESSIONAL FOOTBALL IS AMERICA'S MOST POPULAR SPORT, THERE'S A DISTURBING UNDERSIDE TO THE GAME. NFL PLAYERS ARE DISCARDED WHEN THEY'RE NO LONGER VALUABLE ON THE FIELD, RETIRING WITH PERMANENT INJURIES, PAINKILLER HABITS AND FEW JOB SKILLS.

KEVIN GOGAN IS A 14-YEAR VETERAN WHO PLAYED

WITH FIVE DIFFERENT TEAMS AND WON TWO SUPER BOWLS WITH THE DALLAS COWBOYS. HE'S A GENTLE GIANT, FRIENDLY AND SELF-ASSURED, AND HE CARES DEEPLY ABOUT FORMER PLAYERS WHO HAVE FALLEN ON HARD TIMES. NOW 50, GOGAN IS A SHARP CRITIC OF NFL POLICY AND POLITICS. BUT HE SEES OPPORTUNITIES FOR THE LEAGUE TO IMPROVE ITS IMAGE, STARTING BY ALLOWING ITS PLAYERS TO USE CANNABIS MEDICALLY.

This has been the worst year in NFL history as far as scandals are concerned. What's your take on all this?

Well, I was a player. Seeing it as a player, and seeing it as a parent—an adult human being—I think it's awfully disgusting what's been going on. On the NFL side of it, I've seen cover-up after cover-up after cover-up. So it's really not that shocking to me as far as what truths are being brought out.

Nobody thinks that domestic abuse is new to the NFL.

I don't think it's anything new to any walk of life. I'm sure this happened at Microsoft with all of the employees that they have. It just doesn't get on paper.

A lot of players have been very critical of NFL Commissioner Roger Goodell. Is it warranted?

I think we all know the answer to that; his performance was pretty lame. But on the other hand, a lot of those players who were tweeting and dogging him have also been on the downside of one of his fines and suspensions. He should get a chance to make it right—whatever that takes. If he can, then he can. And if he can't, then he should probably go.

What do you think is the most common misconception about the NFL?

I don't think the mainstream football fan understands where some of these kids come from, what they're used to or what environment they were brought up in. I think that's what's most misunderstood. When they get the job in the NFL and they look good and dress nice, get a nice car, it doesn't mean that they didn't come from a terrible past or a violent home or something like that. It just means that they're doing good now.

Tell us about your own path to the NFL.



A gladiator prepares.

"I didn't look at myself as a dirty player. I saw myself as somebody who tried to take every advantage that he possibly could."

I played at the University of Washington in Seattle and was drafted in the eighth round—a round they don't even have anymore. That tells you the value I carried: I wasn't very gifted athletically. I saw a lot of better athletes play my position. But I tried hard and practiced hard; I played extraordinarily hard. I tried to make up for what I didn't have in ability by being smart, playing hard, giving all I got—and I lasted 14 years.

What was your first year in the NFL like? Did you feel you could match up with these guys?

Great question. It was 1987, and I remember getting the call: I was at my parents' house, and I remember hanging the phone up and telling myself that I would make that team. The guy who drafted me was Jim Erkenbeck, the offensive-line coach of the Dallas Cowboys. After talking to him, I knew that I had the ability to make it; I just went out and gave it my all at the training camp. I was going up against legendary players like Ed "Too Tall" Jones and

Randy White—guys I watched on TV as a kid. I had to go out there and cut my teeth against guys like that!

So 1987 was a strike season. The guy I was backing up quit; he never came back to play after the strike. Next thing I know, I was in Philadelphia starting my first game against [Green Bay Packers Hall of Famer] Reggie White. I had no idea what I was getting into.

You had a reputation as one of the dirtiest players of your era. Is that true, or were you no dirtier than anybody else?

You develop techniques for surviving in the game. The techniques I developed were using my hands and working my feet. As an offensive lineman in the NFL, the guys you're blocking are bigger, stronger, faster, leaner—better pure athletes who run and jump. Defensive linemen are phenomenal on the athletic side of the chart. So you have to use things to your advantage; you have to find out what your specialty is.

I was a really big offensive guard—6-foot-8, 335 pounds. Guys who are defensive tackles aren't used to seeing that. I developed what's called a short set: I got right on the line of scrimmage and got to the guys fast as I could, then held on for dear life. That's what worked for me. So you learn their tendencies—how they line up, what they do out of different formations. It's a full-time job, and it requires that you work on and off the field. When you're less gifted than other players, you gotta do more.

But did you consider yourself a dirty player?

It was smoke and mirrors, really. You had a bunch of guys out there who were scary. Your reputation starts building. I got into people's heads: "You'd better watch out, 'cause he's coming!" All of a sudden, people are trying to be your friend out there. So

it's kind of funny.

But if I shove you through the pile or drive you into the ground, that's my job description. You're more than welcome to try that back. We can go at it all day long and do that. You're trying to take food off my plate and I'm trying to take food off yours. So I didn't look at myself as a dirty player. I saw myself as somebody who tried to take every advantage that he possibly could.

I didn't lift weights—I was naturally strong out of the box. I didn't do bench presses; I didn't do squats. When it came to working out, I played racquetball or basketball—I didn't have like a diehard work ethic in the off-season. But I didn't miss practices and I didn't miss games. I worked hard, and I worked hard in the game. I definitely think it paid off.

What is the culture of an NFL locker room?

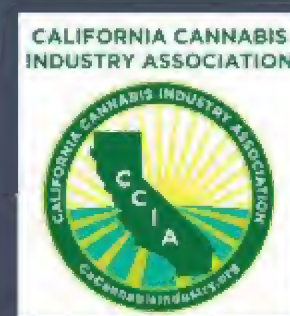
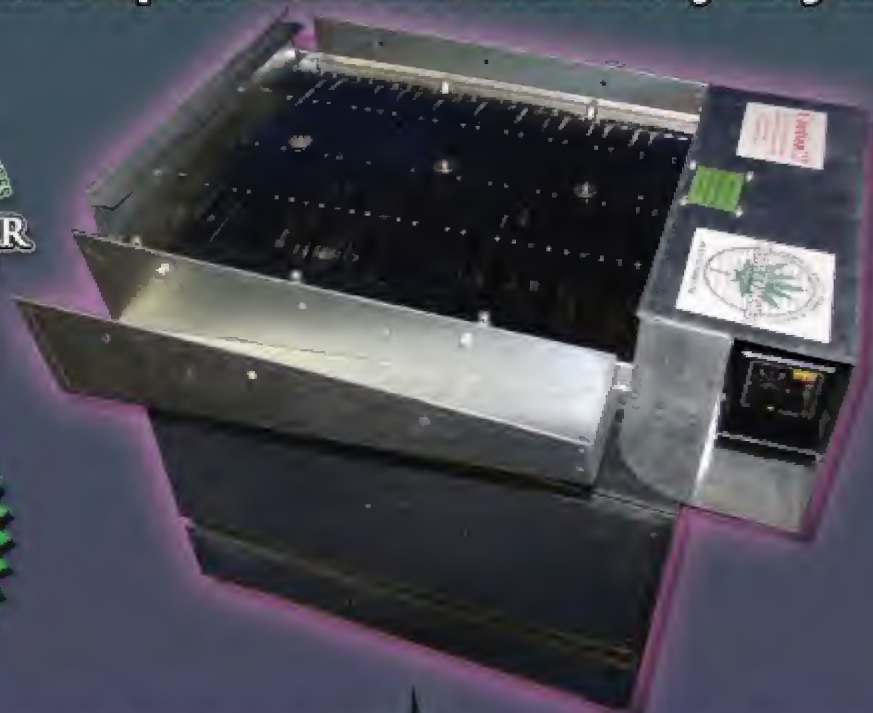
It's like a totem pole. You have guys who are really quiet, guys who are really loud, guys who are really insecure—it's an interesting pecking order before you even hit the field. For instance, in Dallas before Coach Jimmy Johnson got there, we had a locker room that had four different quadrants. So 50 guys are in there, but they break into four groups. You wouldn't see your other teammates until practice. The minute Coach Johnson was hired, he took the walls down: "Get to know your teammates better, get to like 'em or dislike 'em more. Know who you're stepping out on the field with."

Believe it or not, you build better camaraderie when you yell across the locker room and call one of your teammates something and everyone gets a laugh out of it. It's fun. It's an interesting environment, but it also needs to be handled well.

In a locker room, you got 50 guys—some are criminals; some are scholars;

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some are out there peeing on another guy's sunroof for the hell of it. You gotta deal with all different walks of life. And you know Johnson handled everybody and knew how to handle everybody—and he had some legendary misfits on his team.

In 14 years, you must have encountered a lot of different coaching styles.

What was amazing to me was how incredible Jimmy Johnson was at the psychology part of the game. I've told this story a bunch of times: I know this guy—I've been playing with him five or six years. I get up one morning, my elbows are hurting, and I'm like: "I'm not gonna practice. I'm not gonna practice, no matter what." Now I haven't missed a practice in six years, but this one day I'm like, "I'm going to take the day off."

So I go to the training room, talk to the trainer and say I'm taking the day off. It's hurting pretty good ... then I see Coach Johnson about an hour later. By the end of the talk—which is a totally cool talk; he's not bad-mouthing you or looking down on you—I'm like: "Oh, I'll give it a chance." And I walk away and I'm saying: "Goddamn, man! How the fuck did that just happen? From the minute I woke up, I was not going to practice."

That guy got more out of every single person, from every different walk of life, than any coach I've ever seen, and it had nothing to do with X's and O's. He was just plain brilliant.

Did you use cannabis throughout your career?

No. I got caught in 1988 for using cannabis. I got a 30-day drug suspension in '88, so I went from '88

to 2002 not partaking in any type of medical cannabis at all.

How prevalent are pharmaceutical drugs in the NFL?

You gotta play a game on Sunday, so you get a shot before the game because you're getting old. And you gotta go in and run on Monday right after the game. So on Sunday night, you're taking whatever amount of Vicodin you can get. Then on Monday, you're popping Toradol pills. You're drinking beer on Friday, trying to feel better, and the next thing you know you're getting another shot in your

a shit about how you feel anymore, because you're no longer valuable ... so go get your own fucking drugs! You usually leave with a couple of years of insurance, but after that you're on your own.

Isn't there a sort of "don't ask, don't tell" policy as far as pot is concerned—that as long as you don't get busted and can perform, coaches and management don't mind?

No doubt. Then again, they don't care if you punch your wife in the elevator as long as you don't get caught—that's just the truth. I used to



Checking out the buds at the High Times Cup in Seattle.

"I got caught in 1988 for using cannabis. I got a 30-day drug suspension in '88, so I went from '88 to 2002 not partaking in any type of medical cannabis at all."

ass on Sunday mornings just to get going. That goes on year after year after year.

In the off-season, you get surgeries just so you can get back up and do it again. It's crazy looking back on it, because you don't think about it at the time. How fucking stupid can you be?

You can get all kinds of painkillers, but what a lot of guys who are playing the game don't realize is that you're just a number. When you retire, there's really nobody that gives

say this all the time: If you see a cop showing up at the facilities, they're not always there for the players. They could be there for the coaches. The coaches are just as bad as the players, because they're former players. You've got some legendary coaches who played the game, and whether they smoked cannabis or not, they knew their teammates did—they knew.

They also know it's not an enhancer and it's not harming the moral fiber of the NFL.

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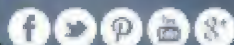
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I just had my hip replaced five months ago. I've had nine elbow surgeries. I don't sleep well. You see the doctor, but the pain never gets better. You do everything you can possibly do—anti-inflammatories and stuff like that—and it just keeps on getting worse and worse.

Has the long-term pharmaceutical use affected you?

I took the Vicodin, I took the Toradol shots, I took the anti-inflammatories ... everything I possibly could, because this job paid well—what else am I going to do? Even after retirement, I couldn't get pain relief without sucking down pill after pill and beer after beer to make the pills a little bit stronger.

These goddamned pills—they make you sick. Your bowels are messed up. I had to turn to cannabis. Now, I may never take another pain pill—unless I've had a surgery. When I had my hip replaced five months ago, I took pain pills for four days, then dropped them and got back on my cannabis and never touched 'em again.

How do you use cannabis?

I like edibles. I've never been a smoker. I have a Volcano to vaporize sometimes, but I like to just ingest it. As long as I get the perfect dose—not too much, because I don't like to be out of control. But really, no pain pills, no beer, no alcohol of any sort—nothing like that. To this day, that's what I'm surviving on. It works for me, and I know it works for a lot of people.

Do you think cannabis has a future in the NFL?

Yeah. It's knee-deep in the league already. I really believe the NFL has to appoint a

panel of people—guys like myself, doctors who believe in it, former players—put a panel together, get in front of it and deal with it correctly. Here in Washington State, it's legal. If it's legal, I don't understand why a guy can't grab himself an edible; he can grab a beer. They're gonna

“The stress and pressure of the NFL can be overwhelming. I'd much rather they use cannabis than Vicodin and alcohol.”

have to quit drawing these fine lines—it's not a game enhancer by any means. I'm not trying to make anybody feel sorry for players, but the stress and pressure of the NFL can

be overwhelming. I'd much rather they use cannabis than Vicodin and alcohol.

Former players have said they suffer post-traumatic stress disorder from playing in the NFL. Is that true?

Yes. What's really weird is, I never, ever thought I'd be a person who'd have to deal with the things that I've dealt with in the last three or four years. I've heard about players getting depressed dealing with the trauma from football. I've seen my buddies go through it—guys I played with, teammates of mine who've killed themselves. It's very shocking to me, very upsetting and depressing.

Your personal health has been affected permanently. Would you trade your NFL experience for better health? After all, the average life expectancy for a veteran offensive lineman is the mid-50s.

Wow, that's an unbelievably hard question. At the time, I never worried about it. But now, 15 years out of it, I worry about it daily. I'm a one-day-at-a-time guy—I try to stay positive as much as I can. I do whatever charity I can. And I try to help people who are in pain. ✨

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Cultivation Clinic

Taking cuttings to make clones. *By Nico Escondido*



an excellent light spectrum for young plants and also run cool, allowing them to be placed very close to the cuttings for maximum light absorption. Thanks to their low wattage, fluorescent lamps are also extremely energy-efficient, while providing good light levels for young cannabis plants.

Humidity & Temperature

One often-overlooked danger for new cuttings is drying out or wilting, which occurs when plants lose their ability to retain moisture or are underwatered. This danger is compounded by the fact that most cuttings are taken from a parent plant in an area of new growth. While this is good cloning practice, as

It is usually best to root cuttings in the same type of medium that they will be transplanted into for the vegetative and flowering stages.

it produces healthy, vigorous clones, it means that the young leaves have only a minuscule wax coating on their cuticles. This wax coating builds over time and provides a protective layer on the leaf surface that helps to retain water.

To combat the possibility of wilting, growers must ensure that their cuttings are constantly being watered and stay moist around the root zone. One method involves using plastic trays with humidortops to house the new cuttings. High humidity can be a huge benefit during the rooting process: Humidity levels at or above 70 percent are recommended for new cuttings and clones in their early stages of development.

Temperature also plays a big role in the successful rooting of cuttings. Rooting takes place faster at higher temperatures, and the humidity will increase as well, since warmer air can hold more moisture. The best temperature range for rooting cuttings is from 76°F to 84°F, with 80°F being optimal for producing the longest, healthiest roots.

Making Clones

Apart from germinating seeds, another extremely popular method for propagating cannabis plants is cloning. To make clones, cuttings are taken from a mother plant, rooted, and grown into replicas of the parent. Cuttings can be taken from either male or female plants, though most growers tend to use females to ensure that their garden is female as well; male clones are usually reserved for breeding projects or making seeds.

Lighting for Clones

In general, cuttings do not need nearly as much light intensity as do plants in either the vegetative or flowering stage. In fact, cuttings should have only three to five leaves on them; any more than that and they will use more energy to stay alive than they will create through photosynthesis.

Since they require less light, new cuttings and rooting clones do best under fluorescent lamps, which provide

Mediums

There are many types of grow medium that work well for rooting. The best forms are the “plug” sizes, small rectangular or cylindrical shapes. Materials ranging from rockwool cubes to soilless plugs (peat pellets) can make an excellent rooting medium.

It is usually best to root cuttings in the same type of medium that they will be transplanted into for the vegetative and flowering stages. If the garden system they will be flowered in is hydroponic and uses an airy medium, such as clay aggregate or lava rocks, it is best to stick with an inert hydro medium such as rockwool cubes. If the garden system is soil or a soilless mix, it is probably best to use peat or coco coir to root the cuttings.

Whichever medium you choose, remember to check the cuttings several times a day and water as needed. You don't want them standing in water, but they should always be moist to the touch, with close light, warm temperatures, and good humidity to aid them in their rooting and growth. ✨

Featured Strain of the Month: **Larry OG Kush, 22.23% THC**



Winner of multiple Cannabis Cups, the Larry OG is a great strain for both medical and recreational use. Another exemplary OG phenotype, the Larry mixes two OG cuts, the SFV OG and the original SoCal (Orange County), which was bred from the Chem D and a hybrid of Lemon Thai x Hindu Kush x Pakistani. The lemon flavor still comes out strong in the Larry OG.

With vast terpenoid profiles including limonene and myrcene, the Larry is one of the more flavorful OGs out there. It went over 22 percent THC at the High Times Cannabis Cup in Denver in 2013 and packs heavy sedative properties wherever it's found. Recently, it's been stabilized via backcrossing for outdoor grows and has become a good yielder both indoors and out.

Thanks for reading, everyone, and remember, grow... and help the world grow, too!

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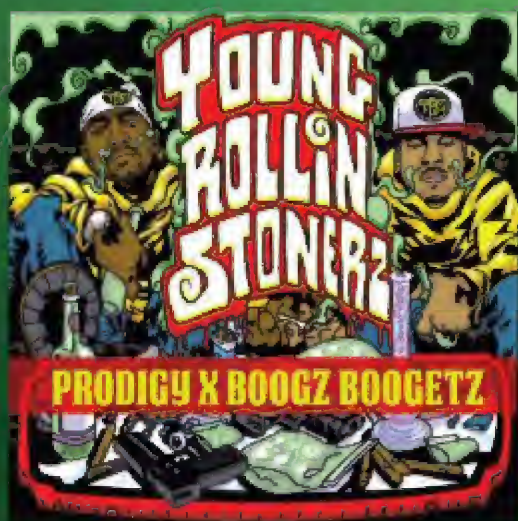
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Send your cannabis cultivation questions to @deardanko or deardanko@hightimes.com.

SUBJECT: **Frozen**

FROM: **Genie**

🌿 What effect does placing marijuana in a freezer have? Does it stay fresher that way?

Dear Genie,
I don't ever recommend placing marijuana in a freezer or even a refrigerator, because very cold or freezing temperatures degrade THC and other cannabinoids. The best place for storing pot is in a cool, dark place in a sealed jar made of opaque glass. Also, marijuana should really be consumed within a year or so of its harvest. Some connoisseurs do have longer-cured stuff that's up to several years old, and pot does take on interesting qualities as it ages, but ultimately it will degrade. For every expertly long-cured three-year-old bud I've smoked that burned perfectly and preserved the terpene profile, I've smoked far more old pot that was past its prime. Besides, the best thing about pot is that you can always grow more!

Avoid degrading THC by not freezing your buds.



Danko Tip: Slaughterhouse-derived “organic” products such as dried blood meal and liquid fish are acidic and will lower the pH of soil mixes.



Fusarium is a fungus that can quickly destroy entire plants.

SUBJECT: **Holy Leaves**

FROM: **Redding Ray**

🌱 Please help—my outdoor plants have holes in their leaves! What’s causing this, and what can I do to stop it?

Dear Ray,
Your problem is almost certainly some type of insect eating your leaves. If the holes are pretty big, the most likely culprits are caterpillars. Check your plants closely, especially the stems and within the buds (if the plants have begun flowering). If they do have caterpillars, you can use a variety of methods to get rid of them. Start by picking off any you can see by hand and discarding them. Then apply an insecticidal spray such as neem oil.

You can also alternate treatments with Bt (permethrin dust) and a product

called Spinosad. Beneficial predators are another option; my own favorite defense against caterpillars and many other harmful insects is the praying mantis. It’s very satisfying to watch them devour the very pests that would otherwise have been feasting on your leaves and buds. You can order them dormant through the mail and release them at the base of your plants. Then get yourself some popcorn and a spliff and watch these cool insects get to work.

SUBJECT: **Algae**

FROM: **Axe**

🌱 About six weeks into flowering, I noticed mold forming on the top of my soil and around the drainage holes of the pots. Visual inspection of the buds shows no signs of mold. There are also several plants

only three weeks in with just the nascent formation of hairs and buds. The six-week plants are in full flower and are showing prodigious resin production. I removed the top layer of soil from each pot, but I’m concerned. Is this grow FUBAR? Is there a way to save it? Thanks for all you do!

Dear Axe,

What I believe you have growing is algae. When light meets water, algae tends to form, diverting some nutrients from their intended use and causing an ugly slime buildup. My first suggestion is to cover the top layer of your soil with some type of opaque material (white plastic works well). My second suggestion is to avoid watering the top inch or so of your soil by watering your plant from below. This involves letting the plant sit for a short time in nutrient solution so that the roots can uptake what they need. The top few inches of soil contain few roots and, when kept overly moist, encourage the growth of mold and pests such as fungus gnats.

SUBJECT: **Burnt Tips**

FROM: **Luke and Leia**

🌱 No matter what I do, I always get burnt tips on my leaves. Hydro, organic, indoor, outdoor, greenhouse—it’s all the same. I never run my nutes higher than 1,500 ppm, and yet this happens to me over and over. Please help us, Danko Wan Kenobi—you’re our only hope!

Dear Luke (and Leia),
Use the force! To truly dial in your nutrients, you have to dial them way down: 1,500 ppm is much too high for all but a few weeks of flowering growth. By using a lower level of nutrients for the rest of that time, your buds will taste and burn better, and you won’t see burnt tips ever again.

Start by using half the amount of nutrients recommended on their labels. If you see your leaves begin to yellow or fade, dial it back up a bit. Keep in mind that you can always add more nutes if necessary, but it’s difficult to subtract them when you’ve used too much. My credo is that less is always more when it comes to feeding pot plants. That way, you’ll also have less to leach out during the flushing process for the last week or two of flowering.



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Danko Tip: Replace all of the nutrient solution in your hydroponic reservoir every two weeks or sooner.

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SUBJECT: **Green LEDs**

FROM: **Scoti P.**

I've been looking around on the Internet, and there seems to be a lot of controversy concerning the use of green-colored lights during the dark cycle. I've started using them myself, but in a new way that I like to call the "streetlight method." I enjoy the freedom they give me of being able to do work at the most convenient times for me, and the result with the girls has been excellent.

First, let me tell you what I've done: From day one, as soon as my plants (grown from seed) were introduced to light, every single dark cycle has been illuminated by a roll of lit tape (stretched around the perimeter of the room). These are green LEDs—not the little bulbs, but the actual diodes. This is an attempt to limit any other spectrum leaks. So they were put through this regimen every single day and night: The LEDs came on 15 minutes before/after the grow lights went off to make sure that all the plants got was green light during the "night." They were in this state for around two months (eight weeks) in the vegetative stage with no issues. I have now dropped the lights down to 13 hours, and the plants have clearly recognized this as a "dark" cycle, even though the green LEDs are still in use at this stage—which is nearly two weeks in, but there is clearly flower development.

The idea behind the "streetlight method" is that even out on the street, there are plants, trees, etc., that flower with no issues whatsoever, even though there is constant light, every night, in a spectrum easily processed by them—and yet they still reproduce. I don't like the idea of just coming into my growroom with a green light every so often to trim, spray, etc.; if a plant is used to the dark, it should stay in the dark. So what I've done is to try and get them completely accustomed to the green LEDs as their dark cycle. I've got the pH running at 6.2 to 6.3, the EC at 2 (at present), and I'm growing in soil, trying to maintain a temperature of 20°C to 25°C (68°F to 77°F) between night and day, with a humidity of 50% to 60%.

As I said, there have been no issues so far. But I'm still nervous, so I was wondering if you know of any research in this area or anything else that has already been done like this?

Dear Scoti,
 A very interesting theory and experiment! Because the plants don't "recognize" green light as part of the spectrum, they think they're in the dark, allowing you to work in the room during that time. This is the first I've heard of anyone keeping green



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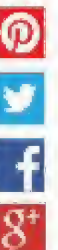
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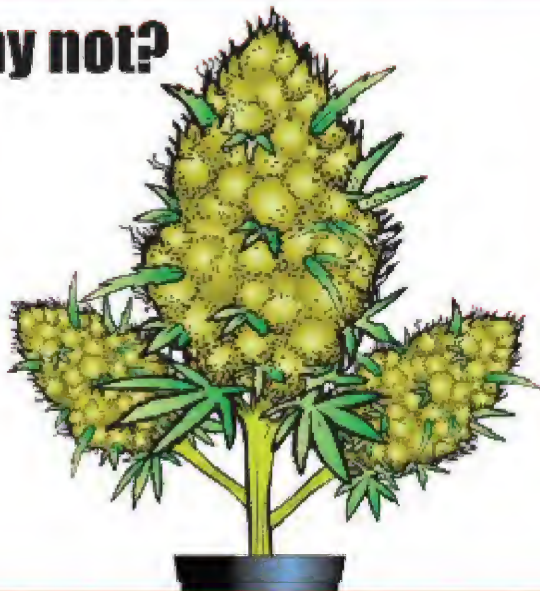


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Danko Tip: Always flush plants twice: First to flood the medium and dissolve built-up salts, and then to flush out the leached solution.

lights on throughout the entire dark cycle. It certainly seems to make more sense to do it that way than to have a green light come on intermittently. Clearly, plants prefer regularity, so having that light as a constant rather than an interruption should result in happier plants.

However, I always try to recommend the safest and easiest tactics, so my own advice would be to ditch the green lights and only enter your growroom during the light cycle unless absolutely necessary. There's not much you need to do while the lights are off that couldn't wait until they come on, and the risks you take when experimenting with pot plants and their light cycles is too great. I've seen too many "confused" plants start acting out (i.e., turning hermie or putting out one- or three-leaf fan leaves) to feel comfortable messing around with the tried and true.

The Black from BC Bud Depot eases symptoms of arthritis.



SUBJECT: **Medicinal Strain**

FROM: **Chris T.**

I recently watched *Run From the Cure* and have decided to use "hemp oil" for my arthritis and as a preventative medicine. Rick Simpson says on his site that White Widow is the best strain for cancer, but he doesn't say anything about which strain is best to make oil for my condition. He also says that every seed bank is different and that you might get a different strain from each one even when ordering the "same" strain. In your valued opinion, what's the most reliable seed bank to order from to get medicinal strains shipped to the USA?

Dear Chris,

If you're looking for CBD-rich strains, I recommend anything from the CBD Crew (cbdcrew.com). Much more information on CBD and its benefits can be found at the CBD Project (cbdproject.com). As for specific strains for treating arthritis, I've heard great things about TGA Seeds' Jack the Ripper, bred by Subcool, as well as the Black from BC Bud Depot. Most of the seed banks overseas won't ship directly to the USA, so you're probably gonna have to go with a middleman at the retailer level. Of these, I recommend Attitude Seeds (cannabis-seeds-bank.co.uk) and the Guerrilla Seed Bank (gorilla-cannabis-seeds.co.uk). Both have been in business for more than a decade with stellar customer service. ✨

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Vaporizers, CBD and the banking ban on bud sellers.

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Since a vaporizer doesn't really burn the plant, how do I know when the bud is finished?

Ned Ulizer

Hi Ned,
The best way is to see if you're still exhaling blue mist and stop if you're not. Also, the data suggest that you get a lot more out of bud when vaping than you might expect. But if you're concerned about leaving cannabinoids behind, use your vaped material to make edibles.



The cash-only dilemma

Do high-CBD strains yield less or create unique hassles for growers?

Harley Quinn

Hi HQ,
Delightful Danny Danko emphasizes that high-CBD strains are simply hybrids that behave much like their low-CBD counterparts, with comparable yields and flowering times. Other growers agree: Any variation in yield or flowering time has to do with lights, soil and nutrition as well as the strain.

and even lead to the bank paying a fine. In some cases, officers of the bank can be subject to prison, too.

Can you test positive sitting in a hotbox even if you don't smoke?

Saul Silver

Hi Saul,
A recent experiment let folks smoke as much as they wanted inside a 10' x 13' x 7' room while others hung out with them but didn't smoke. The non-smokers did end up testing positive on occasion, but only with the most sensitive cut-off for the test. The smokers consumed over 10 grams in an hour, creating one hell of a lot of smoke. So those who tested positive certainly knew they were sitting for an extended period of time in an extremely smoky environment. 🌿

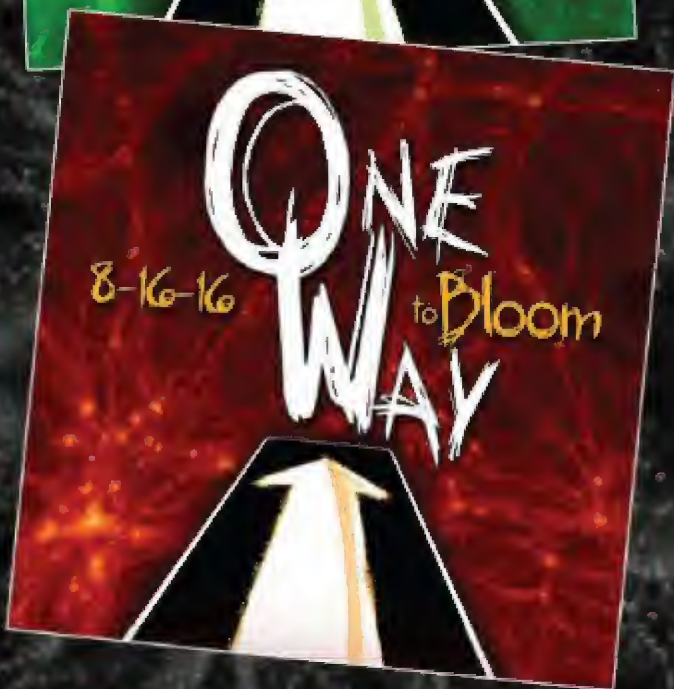
Why can't small local banks help out marijuana businesses and tell the Feds to get lost?

Duck McScrooge

Dear Duck,
Federal laws against money laundering still apply to them. Whenever someone comes in with as little as \$5,000 in cash, a bank may have to report that as "suspicious activity." The report can trigger an investigation that may get the depositor busted

Dr. Mitch Earleywine, PhD, is a professor of psychology at SUNY Albany and the author of Understanding Marijuana and The Parents' Guide to Marijuana.

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Terpenes: The Essence of the Dab

THC is like a blank canvas that we paint upon with terpenes. *By Craig Coffey*

The first great contribution that marijuana has made to medical science is that it helped us discover and understand the endocannabinoid system. The discovery of this system will likely lead to an entirely new branch of medicine, with doctors who specialize in using our body's own endocannabinoids to treat pain and diseases.

Marijuana's next great contribution to science could be a better understanding of aromas—in the form of terpenes—as medicine. Cannabis concentrates are shedding light on how aromatherapy can be a very powerful therapeutic tool. For example, there is evidence that the terpene called myrcene increases the amount of THC that can cross the blood-brain barrier. If myrcene can do that with THC, it may also be able to increase the efficacy of other drugs.

Concentrate makers have been stripping the THC, CBD and other cannabinoids from trichomes to achieve “pure” products, and the isolation of these chemicals has taught us a great deal. On their own, THC and CBD are not all that interesting; however, when terpenes enter the mix, things become very interesting indeed. Some terpenes can interact with our endocannabinoid system by bonding to the exact same receptors as THC and CBD. It's the combinations of terpenes and cannabinoids in different ratios that create the wide variety of “highs” that we can coax out of cannabis. You might say that THC is like a blank canvas that we paint upon with terpenes.

Terpenes have become the subject of serious study and discussion among terp nerds (people who are in it for *the terps, man*), especially concentrate makers and smokers. So let's take a look at some of the more common terpenes and the role they play in high-quality flowers and dabs:



Terpenes provide flavor, aroma and more.

Limonene smells like citrus fruit and contributes to the *sativa* spectrum of effects. Dabs high in limonene tend to promote stress relief, mood elevation and feelings of high energy.

Myrcene smells like good soil or maybe cloves. Myrcene is one of the cornerstone terps in the Kush family. This terpene increases the amount of THC/CBD that moves across the blood-brain barrier, making for more of a “couchlock” stone.

Pinene (*alpha and beta*) smells like pine or rosemary. Dabs high in pinene should be classified as “study dabs,” because the odor of pinene appears to help with memory retention and recall. (Study high, get high grades.)

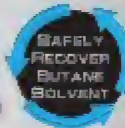
Linalool has a floral smell, slightly like lavender. This is a “comfort” aroma that promotes relaxation and feelings of well-being. Linalool is present in cotton and linen, and that may be why the smell of jeans and warm towels can be so soothing.

Caryophyllene smells like pepper and has the ability to bind directly to the CB2 receptors in your nervous system, just like CBD and THC. Combining this terpene with cannabinoids can reduce the feeling of paranoia often associated with being very stoned. 🌿



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The Big 4-0

The marijuana magazine of record hits middle age.

If you were to check out the “40th Birthday” section in the greeting-card aisle of any store, you’d undoubtedly find numerous cards that joke about being bald, out of shape and over the hill. I should know—I received one myself when I turned 40 not long ago. Predictably, there are a handful of haters out there who try to portray *High Times* in much the same manner: as some relic run by aging tie-dyed hippies. But in reality, they couldn’t be more wrong: Like me, *HT* may have been born in the 1970s, but it has evolved with the times and is now more successful—and relevant—than ever.

To illustrate that point, friends and fans of the mag of all ilk and age—activists, actors, advertisers, alumni, comedians and Cannabis Cup winners—gathered atop a rooftop bar in NYC’s Lower East Side for an invitation-only 40th anniversary blowout this past October. It was a ganja-fueled gala complete with open bar, specialty cocktails with real pot-leaf garnishes, a sparkly pot-leaf-shaped piñata stuffed with some 500 joints, and a stupendous three-tiered green-velvet cake (courtesy of my pal Jessa Blavatsky at Slaytanicakes).

On the green carpet, I had the honor of interviewing some of the more notable attendees, including comic Jackie “the Joke-man” Martling (of Howard Stern fame); legalization legends Keith Stroup (founder of NORML) and Dana Beal (creator of the Million Marijuana March); cannabis moguls Don and Aaron of DNA Genetics and Giddyup of Emotek Labs; and Charlo Greene, the Alaskan newscaster turned dispensary owner who became an overnight Internet sensation with her controversial on-air resignation (“Fuck it—I quit!”). It was this audacious outburst, along with her eloquent

arguments for legalization that followed, that inspired us to present Greene with a new *HT* Courage In Media award.

And let’s face it: If anyone knows about courage in media, it’s *High Times*. Four decades ago, a clandestine clique of smugglers, activists and editorially-minded outlaws got together and cre-

ated a magazine to glorify their illegal escapades and attack the establishment, at the risk of incurring the wrath of the formidable forces of prohibition. Among that motley crew of miscreants was *HT*’s original editor, Ed Dwyer, who—along with former editors Bob Sacks and Andy

Kowl—was among the evening’s revelers. During our interview, they regaled me with tales about being paid in cannabis seeds, hiding bags full of guns and cash, and throwing those infamous nitrous-tank-fueled parties.

“That was our trademark in the early days,” Kowl boasted. “When we were doing what we were doing, we didn’t know if it was legal. When we took a photograph, we didn’t know if that would become evidence against us. No one had ever done that before.”

And no one else would have the nerve to follow our example for decades. In all that time, *High Times* continued to push boundaries and break taboos. Now, as marijuana legalization sweeps the nation, we’re finally in the catbird’s seat. In the past several years, we’ve added some 50 pages and gone from one Cannabis Cup a year to *six*—with more events on the way. So to anyone who’d like to characterize *High Times* as “over the hill,” allow me to retort with the words of beloved *Peanuts* creator Charles Schulz: “Just remember, once you’re over the hill, you begin to pick up speed.” 🌿



Interviewing Charlo Greene on the green carpet.

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Schedule Problems

Federal court weighs whether marijuana's Schedule I status is constitutional.

Paul Armentano is deputy director of NORML. Visit norml.org.

For the first time in decades, a federal court judge will decide on the constitutionality of the federal statute designating marijuana as a Schedule I Controlled Substance.

Last spring, a US District Court Judge in the Eastern District of California granted defense counsels' motion for an evidentiary hearing to assess pot's prohibitive classification, acknowledging, "[T]here is new scientific and medical information raising contested issues of fact regarding whether the continued inclusion of marijuana as a Schedule I controlled substance ... passes constitutional muster."

In October, the court heard nearly five days of expert testimony in regard to whether this new information contradicts the federal government's longstanding contention that there exists a rational basis for defining the marijuana plant as a substance possessing "a high potential for abuse," "no currently accepted medical use," and a "lack of accepted safety" for use under medical supervision.

Expert witnesses for the defense who testified at the historic hearing in Sacramento were Carl Hart, PhD, associate professor of psychology in the Department of Psychiatry and Psychology at Columbia University in New York City; retired California physician Phillip Denny, MD; Greg Carter, MD, medical director of St. Luke's Rehabilitation Institute in Spokane, WA; and marijuana cultivation expert and



author Chris Conrad. Additional evidence for the defense was presented by way of declarations by Marine Sgt. Ryan Begin, a veteran of the Iraq War; Jennie Stormes, the mother of a child suffering from Dravet Syndrome—a pediatric form of epilepsy that has been shown in preliminary trials to respond to specific compounds in the cannabis plant; James Nolan, PhD an associate professor of sociology and anthropology at West Virginia University and a former crime analyst for the US Federal Bureau of Investigation.

The lone expert witness for the government was longtime prohibitionist Bertha Madras, PhD, Professor of Psychobiology at Harvard Medical School and the former deputy director for Demand Reduction for the White House Office of National Drug Control Policy under President George W. Bush.

The defense attorneys in the case—Zenita Gilg and Heather Burke, both members of the NORML Legal Committee—contend that the overall scientific evidence is inconsistent with cannabis' Schedule I status, and that the Obama administration's present policies facilitating the regulated distribution of commercially produced weed in states such as Colorado and Washington can not be reconciled with its simultaneous insistence that the plant warrants its "most dangerous drug status" under federal law.

Unlike prior hearings regarding pot's scheduling, such as the 1986 hearing before the DEA's administrative law judge Francis Young (*NORML v. DEA*), this latest action is not administrative in nature and thus, unlike Judge Young's verdict, it cannot be later determined to be nonbinding. (The ruling, however could—and likely will—be appealed to a higher court, regardless of the judge's decision.) Further, unlike prior efforts, the defenses' motion does not call for the plant to be placed in a separate schedule under the US Controlled Substances Act. In this case, the sole issue before the court is whether or not it is reasonable to place cannabis in Schedule I, not whether it belongs in some other classification.

The judge is expected to render a decision some time after the New Year. ✨

FREEDOM FIGHTER

By Erik Altieri, NORML communications coordinator

Mike Whiter's War

A Pennsylvania vet battles for his brothers in arms.

Mike Whiter is a medically retired US Marine Corps staff sergeant who was diagnosed with post-traumatic stress disorder (PTSD) after his discharge in 2006. Upon returning home, Mike was prescribed 40 different medications by the Department of Veterans Affairs to treat his chronic pain and PTSD. But after five

years of overmedication, Mike discovered the effectiveness of medical marijuana. He stopped taking pharmaceuticals and started medicating with cannabis instead.

Mike has been advocating for marijuana since 2012 with the local pro-pot advocacy groups in his home state: Philly NORML and the comedy activist group known as the Panic Hour. He was also instrumental in



organizing the Smoke Down Prohibition events at the Liberty Bell in Philadelphia. As his activism evolved, he founded Pennsylvania Veterans for Medical Marijuana in 2012, informing veterans in and around the state that marijuana is a safe and effective alternative for treating PTSD.

This past October, Philadelphia Mayor Michael Nutter signed a bill

decriminalizing the possession of small amounts of marijuana in the city. Mike was there at the signing and immediately hatched a plan to be issued the first ticket for marijuana use after the law took effect. He lit up a joint in the middle of the courtyard at Philadelphia's City Hall and was promptly ticketed, then released. Mike says he'll continue to carry out such actions until he can medicate without fear of prosecution.



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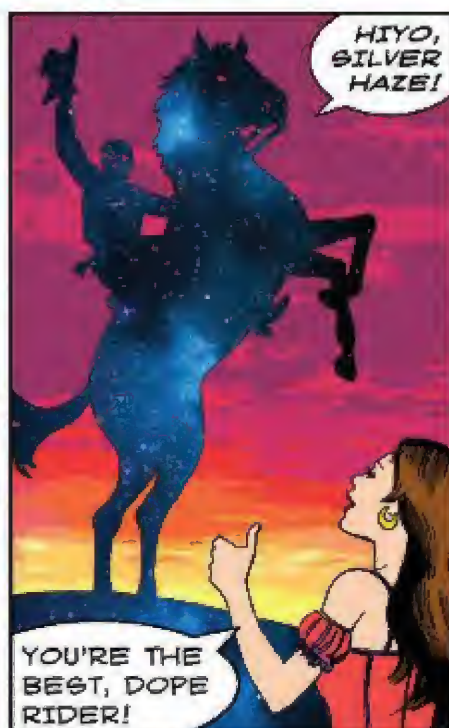
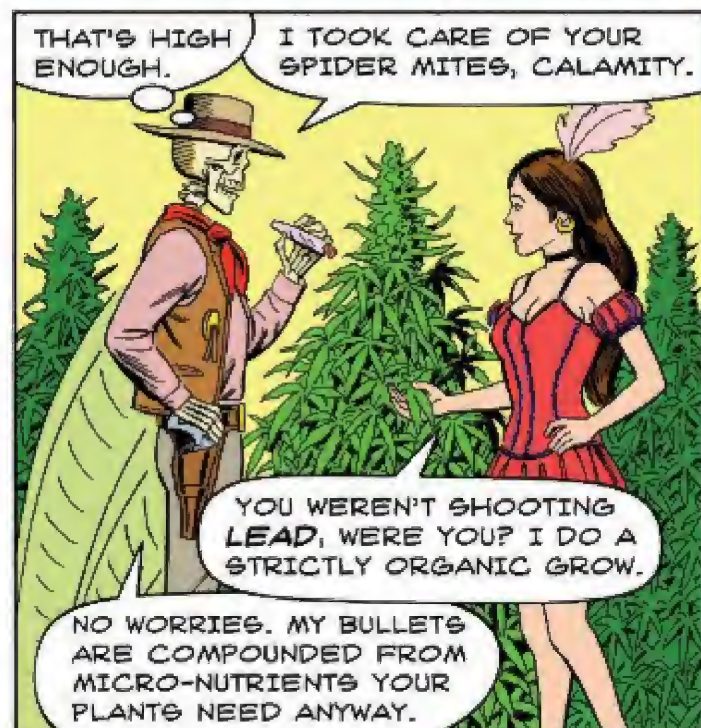
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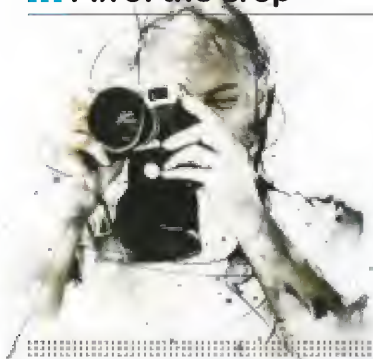


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COLA OF THE MONTH

Sober Supporter



I used to read your magazine more than 35 years ago and I always marveled at the beautiful pictures of weed. I stopped looking at *HT* when I stopped smoking pot, drinking and doing drugs 29+ years ago. I still have no desire to imbibe, but I am a proponent of legalization. I was glad to see its use for medical purposes legalized in CA and hope that other states will follow the lead of Colorado and Washington for recreational use. This is my friend's medical marijuana, shot by me. *Jim McClain*



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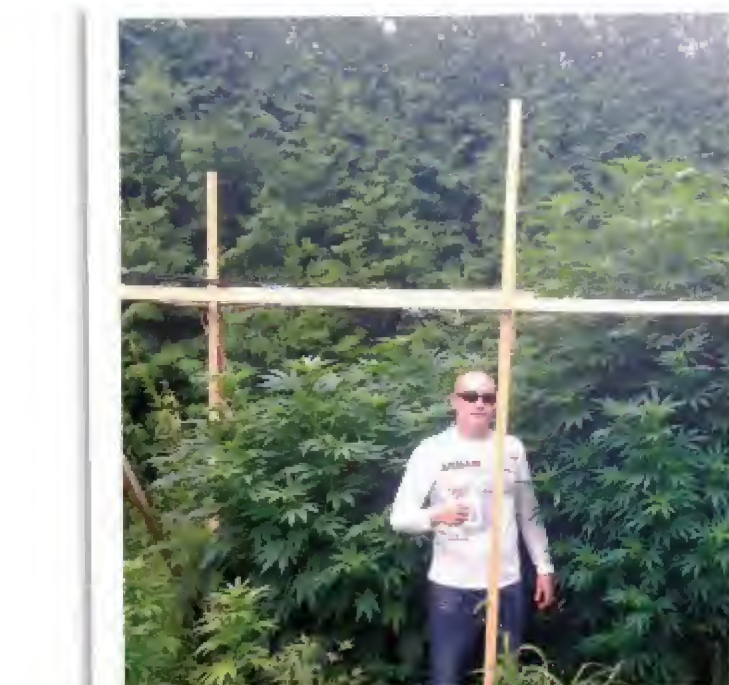
 The bud is Cinex, and the glass is a RooR tech inline. The 'extra' hoses coming off of it are for a custom nitrous oxide 'purge' unit which makes pulling tubes a whole new experience! Enjoy. *Jaybird and Myrtle Turtle, WA*



FLOWER OF THE MONTH


Bring It On Home

 Here are some photos of our organic outdoor Hash Bomb x Secret Strain medical outdoor. Looks like it's going to be a good year! *Wood from Crabtree, OR*



GROW OF THE MONTH

The Farm Team

 I'm from Quebec and I've been a backyard grower for a little while now. I grew my share but never had a plant that yielded 2.5 pounds! When I cut it its height was 10' and it was 25 feet around. I've seen a bunch of big plants on YouTube from people that live south where the weather allows monster plants to grow, but where I'm from we don't get that luck. *Hugo*



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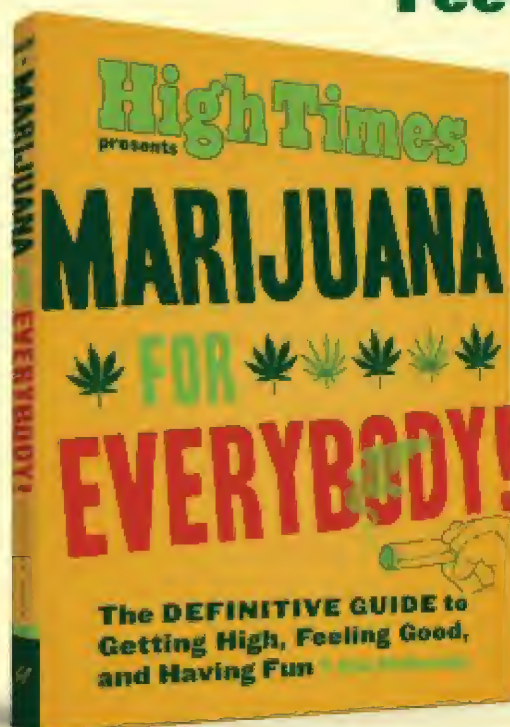
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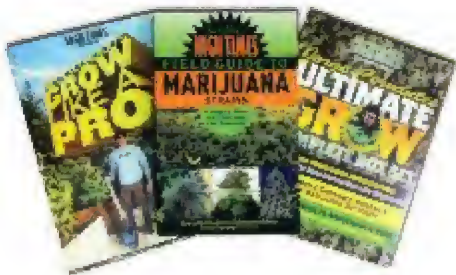
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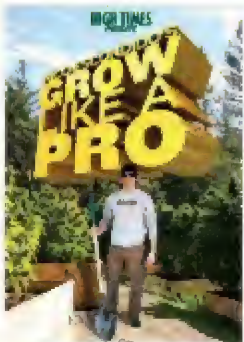


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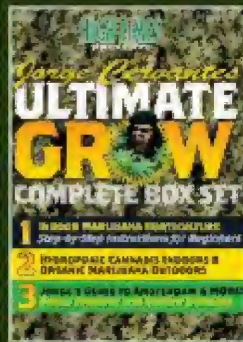


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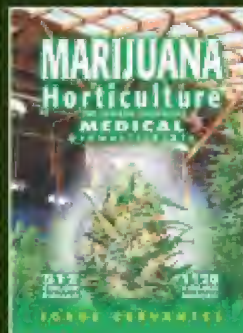


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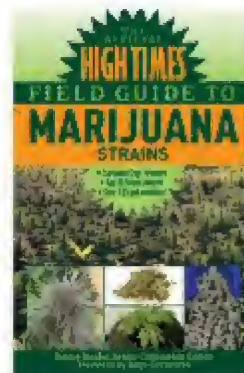


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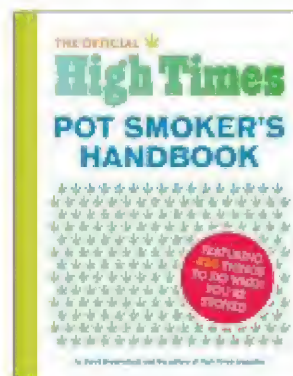
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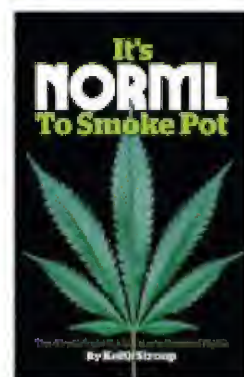
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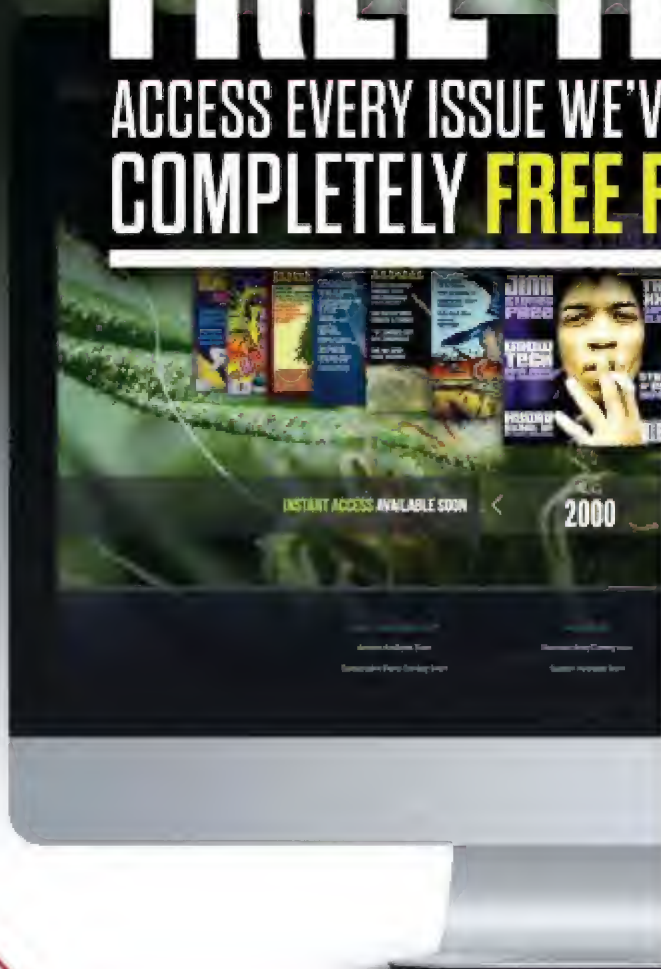
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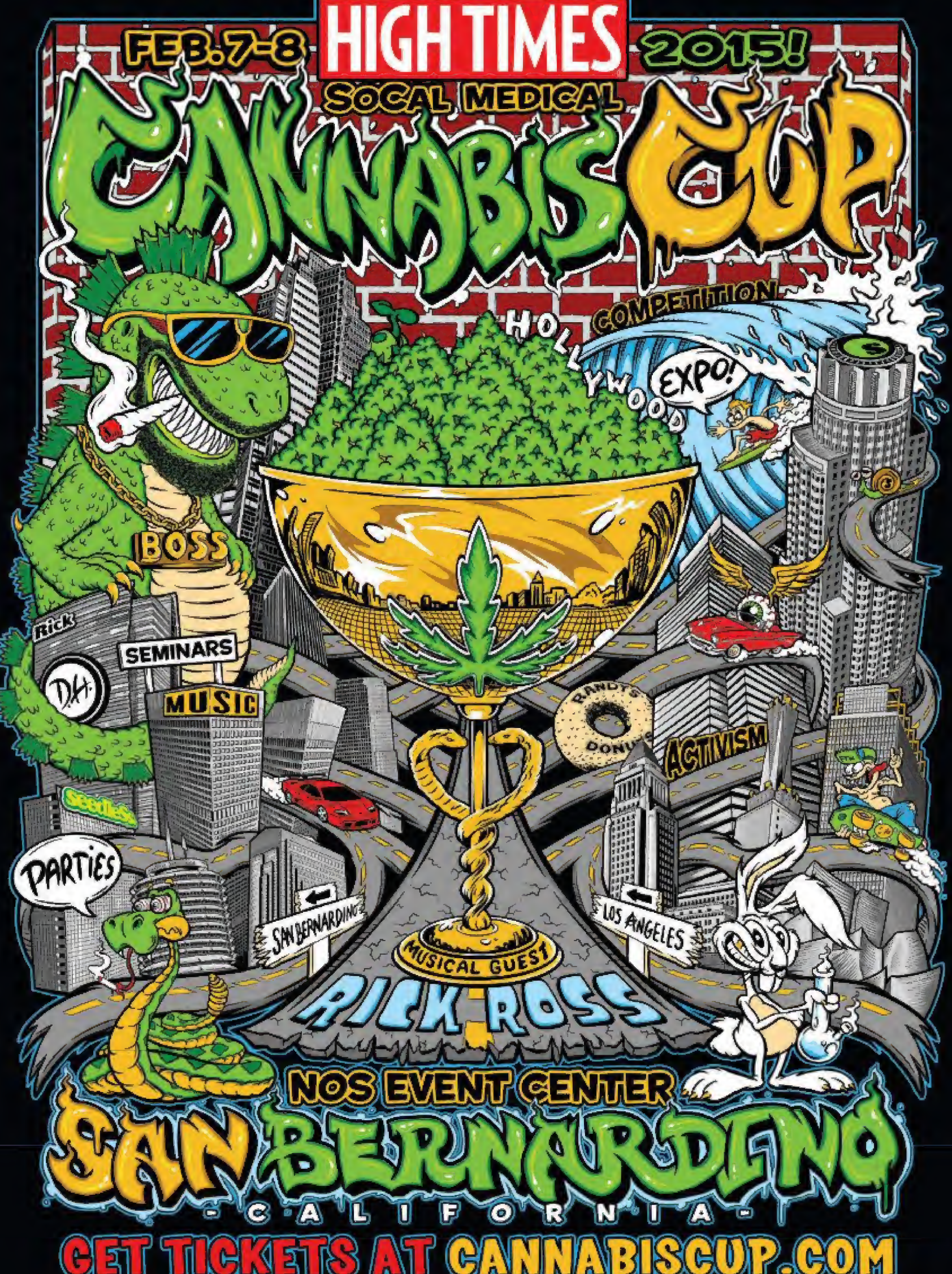
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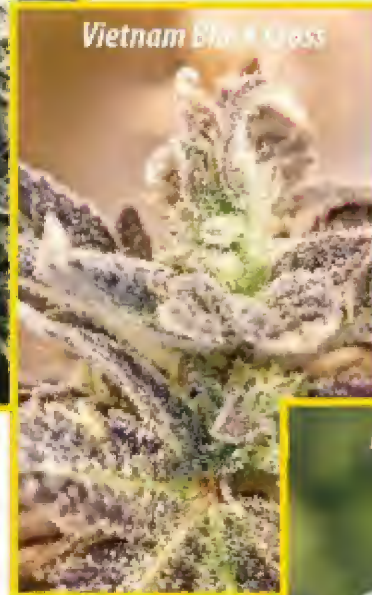
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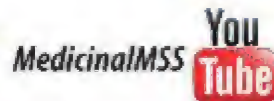
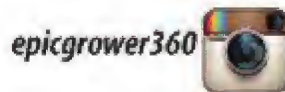
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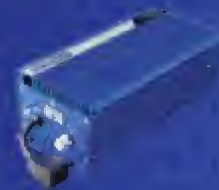
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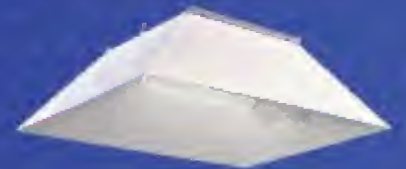
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